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E-TR-58-VOL-3

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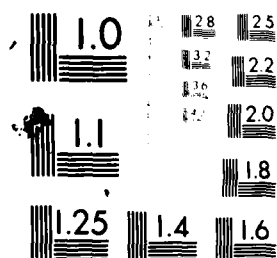
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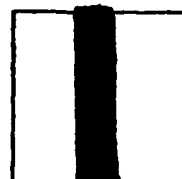
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E-TR-58-III

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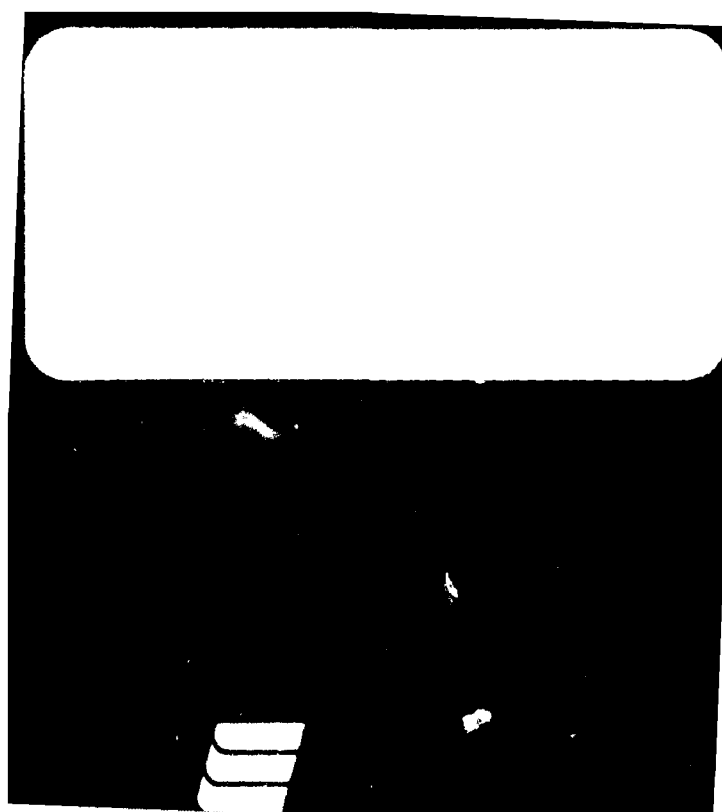
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MX SYSTEM SITING
SUMMARY REPORT

LAND ACQUISITION APPLICATION
PACKAGE MAP SHEETS

VOLUME III

Prepared for:

U.S. Department of the Air Force
Ballistic Missile Office
Norton Air Force Base, California 92409

Prepared by:

Ertec Western, Inc.
3777 Long Beach Boulevard
Long Beach, California 90807

18 January 1982

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER E-TR-58-III	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) MX System Siting Summary Report, and Acquisition Application Package Map Sheets, Vol III		5. TYPE OF REPORT & PERIOD COVERED Final
7. AUTHOR(s) ERTEC Western, Inc	6. PERFORMING ORG. REPORT NUMBER E-TR-58-III	
9. PERFORMING ORGANIZATION NAME AND ADDRESS Ertec Western Inc. (formerly Fugro National) P.O. Box 7765 Long Beach Ca 90807		8. CONTRACT OR GRANT NUMBER(s) F04704-80-C-0006
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Results give the initial MX system proposed land requirements for Nevada-Utah,		

FOREWORD

This report has been prepared for the U.S. Department of the Air Force, Ballistic Missile Office, in compliance with Contract No. F04704-80-C-0006. It presents the summary of Ertec Western's investigations for siting of facilities and routing of a transportation network for the MX system in Nevada, Utah, and New Mexico. Information, results, and conclusions contained in this report are based on MX siting studies conducted during fiscal years 1980 and 1981. The major part of the study covers 37 deployment valleys and three main operating base sites in Nevada and Utah. Limited studies were also performed in the area surrounding the main operating base site in New Mexico. This report consists of three volumes.

Volume I, Part I

- o General Introduction providing brief overviews of the MX system, program schedule, and siting program which includes:
 - Introduction
 - Summary of MX System Components
 - MX Program Schedule Overview
 - Siting Program Overview

Volume I, Part II

- o Summary discussions of results, conclusions, and recommendations of the Shelter Siting Summary studies of the 37 deployment valleys which includes:
 - Introduction
 - Siting Requirements
 - Siting Methodology
 - MPS/HSS Siting Program, Nevada/Utah DDA
 - Shelter Siting Program Summary, Conclusions, and Recommendations

Volume II, Part I

- o Results and conclusions of the Designated Transportation Network/Area Support Centers (DTN/ASC) siting studies within the MX system study areas which includes:
 - Introduction
 - Objective and Scope
 - Methodology
 - Criteria
 - Field Reconnaissance and Pass Evaluation
 - Evaluation of Optimum DTN Routings and ASC Locations
 - Conclusions

Volume II, Part II

- o Results and conclusions of the Operational Base Test Site/ Designated Training Area (OBTS/DTA) siting studies near the main operating base sites in Nevada-Utah and New Mexico which includes:
 - Introduction
 - Siting Requirements
 - Methodology
 - OBTS/DTA Siting Evaluation
 - Conclusions

Volume III

- o Land Acquisition Application Package Map Sheets depicting the various preferred and alternate facility combinations for land parcel acquisition which includes:
 - Introduction

This report was being prepared prior to the President's decision on 2 October 1981 not to proceed with the MPS MX basing option. It was intended that more detailed valley siting reports would follow this general evaluation. The original objective of the report was to provide interim data to the users of MX siting data until these more detailed evaluations could be produced. As a result of the President's decision, this report represents the final summary of the MX system siting in the MPS basing mode.

It should be noted that at the beginning of FY 81, siting studies were performed under the firm name of Fugro National, Inc. at its Long Beach offices. On 25 March 1981, the corporate name was changed to The Earth Technology Corporation - Ertec. Since that date, the siting studies have been performed at the same offices under the name of Ertec Western, Inc. with support from Ertec Northwest, Inc., Seattle, Washington; Ertec Airborne Systems, Inc., Cypress, California; and Ertec Rocky Mountain, Inc., Denver, Colorado.

LIST OF ACRONYMS

ADT	Average Daily Traffic
AFRC-MX	Air Force Regional Civil Engineer-MX
AFSC	Air Force System Command
ALCC	Airborne Launch Control Center
AOB	Auxiliary Operating Base
ASC	Area Support Center
BLM	Bureau of Land Management
BMO	Ballistic Missile Office
C ³	Command, Control, and Communication
CBR	California Bearing Ratio
CDP	Candidate Deployment Parcel
CEQ	Council on Environmental Quality
CMF	Cluster Maintenance Facility
COE	U. S. Department of the Army, Corps of Engineers
CONUS	Conterminous United States
CPT	Cone Penetrometer Test
CRN	Cluster Road Network
CSR	Candidate Siting Region
DAA	Designated Assembly Area
DDA	Designated Deployment Area
DEIS	Draft Environmental Impact Statement
DMA	Defense Mapping Agency
DOPAA	Description of Proposed Actions and Alternatives
DTA	Designated Training Area
DTN	Designated Transportation Network
EIS	Environmental Impact Statement
FLPMA	Federal Land Policy Management Act
FNI	Fugro National, Inc.
FSED	Full Scale Engineering Development
FY	Fiscal Year
GBNP	Great Basin National Park
HDR	Henningson, Durham, & Richardson, Inc.
HSS	Horizontal Shelter Site
IOC	Initial Operational Capability
KGRA	Known Geothermal Resources Area
MF	Medium Frequency
MMC	Martin Marietta Company
MOA	Military Overflight Area
MOB	Main Operating Base
MPS	Multiple Protective Structure
MPT	Mobile Patrol Teams
NCA	National Control Authorities
NEPA	National Environmental Policy Act
NH&S	Nuclear Hardness and Survivability
OB	Operational Base
OBTS	Operational Base Test Site

OSR	Operational Support Road
PLU	Preservation of Location Uncertainty
PMOA	Programmetric Memorandum of Agreement
POL	Petroleum, Oils, and Lubricants
PS	Protective Structure
QA	Quality Assurance
QD	Quantity Distance
R&D	Research and Development
REPR	Real Estate Planning Report
RES	Renewable Energy Sources
RMP	Ralph M. Parsons Company
ROW	Right-of-way
RSS	Remote Surveillance Site
SAC	Strategic Air Command
SALT	Strategic Arms Limitation Talks
SHPO	State Historic Preservation Officer
STV	Special Transport Vehicle
T&E	Threatened and Endangered
TEL	Transporter and Erector Launcher
TI	Technical Interchange
TSB	Test Support Building
USGS	United States Geological Survey
USPLS	United States Public Land Survey
UTM	Universal Transverse Mercator
V&H	Vulnerability and Hardness

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Base
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Main Operating Base

1.0 INTRODUCTION

This volume presents the maps coordinated and produced by Ertec Western, Inc. (Ertec) for the first increment of the land acquisition application package. These maps depict the initial MX system proposed land requirements for Nevada-Utah.

The land acquisition package consisted of the following elements:

- o A regional map at a scale 1:500,000 showing the 37-valley system with the area clustered, the connecting DTN, the ASC sites, and the cluster counts for each valley;
- o Base maps at a scale of 1:62,500 depicting the IOC valley facilities, the Main Operating Base/Designated Assembly Area (MOB/DAA), and the Operational Base Test Site/Designated Transportation Area (OBTS/DTA) site options with associated right-of-way alignments; and
- o Land parcel descriptions of all facilities (legal descriptions) depicted at 1:62,500.

The detailed depictions and parcel descriptions of the remaining system depicted on the regional map were to be provided in later increments.

The initial increment of the package containing the regional and the 1:62,500 "E" size map sheets (36 by 48 inches [91 by 122 cm]) with land parcel descriptions was delivered to the AFRCE-MX on 17 September 1981. After the AFRCE-MX review, revisions were made and a second delivery of the map sheets occurred on 2 October 1981. For ease of presentation in this volume, the revised "E" size map sheets were reduced 50 percent from 1:62,500 to 1:125,000 scale. Drawing 3-3 of the Shelter

Siting Summary (Volume I, Part II) is a sample full "E" size map sheet.

The third element of the land acquisition application package consists of parcel descriptions. These have been discussed in other parts of this report and are explained below.

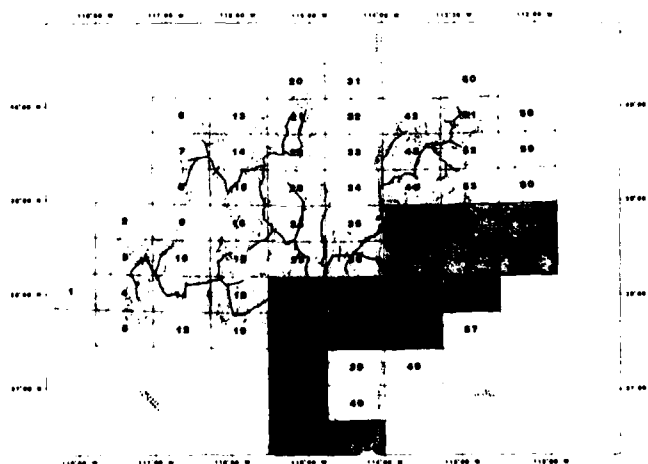
Parcel descriptions of the IOC valley facilities and the OBTS/DTA sites are presented in Appendix G of the Shelter Siting Summary (Volume I, Part II) and Appendix C of the OBTS/DTA Siting (Volume II, Part II), respectively. A general discussion of land acquisition application support appears in Section 4.2.4 of the General Introduction (Volume I, Part I). More specific discussions are in Sections 4.6 and 5.1.3 of the Shelter Siting Summary and Section 4.7 of the OBTS/DTA siting. The land parcel descriptions produced by the base comprehensive planner (EDAW, Inc.) of the MOB/DAA are not presented.

The following reduced revised map sheets are in the first increment of the land acquisition application package (Figures 1-1 through 1-36).

MX SYS
PROPOSED
REQUIREN
FOR
NEVADA/

**MX SYSTEM
PROPOSED LAND
REQUIREMENTS
FOR
NEVADA/UTAH**

THE ATTACHED MAPS ARE INDICATED BY SHADING.



REVISING

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REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
REVISIONS				

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409				
SIGNATURE	DATE			
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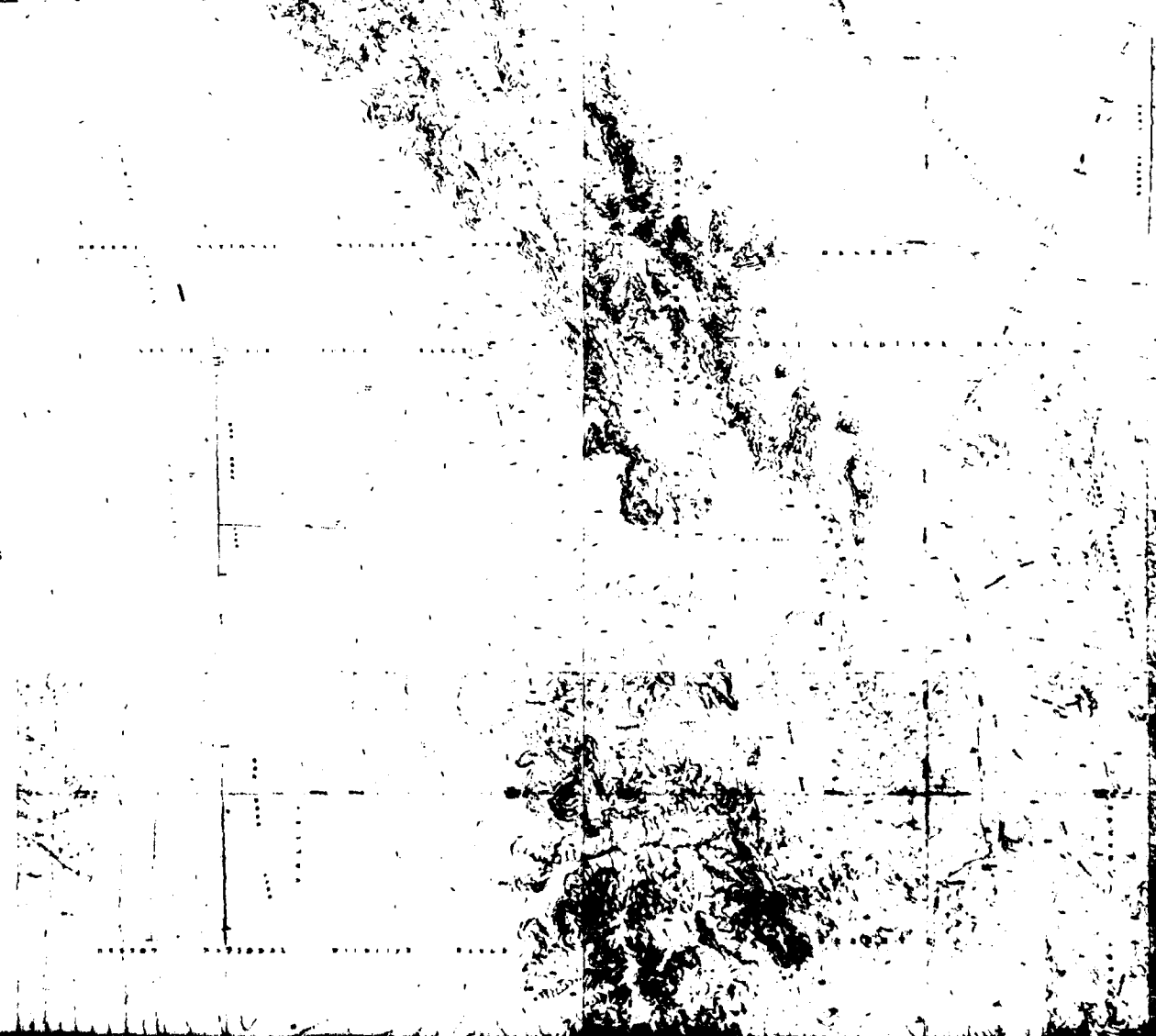
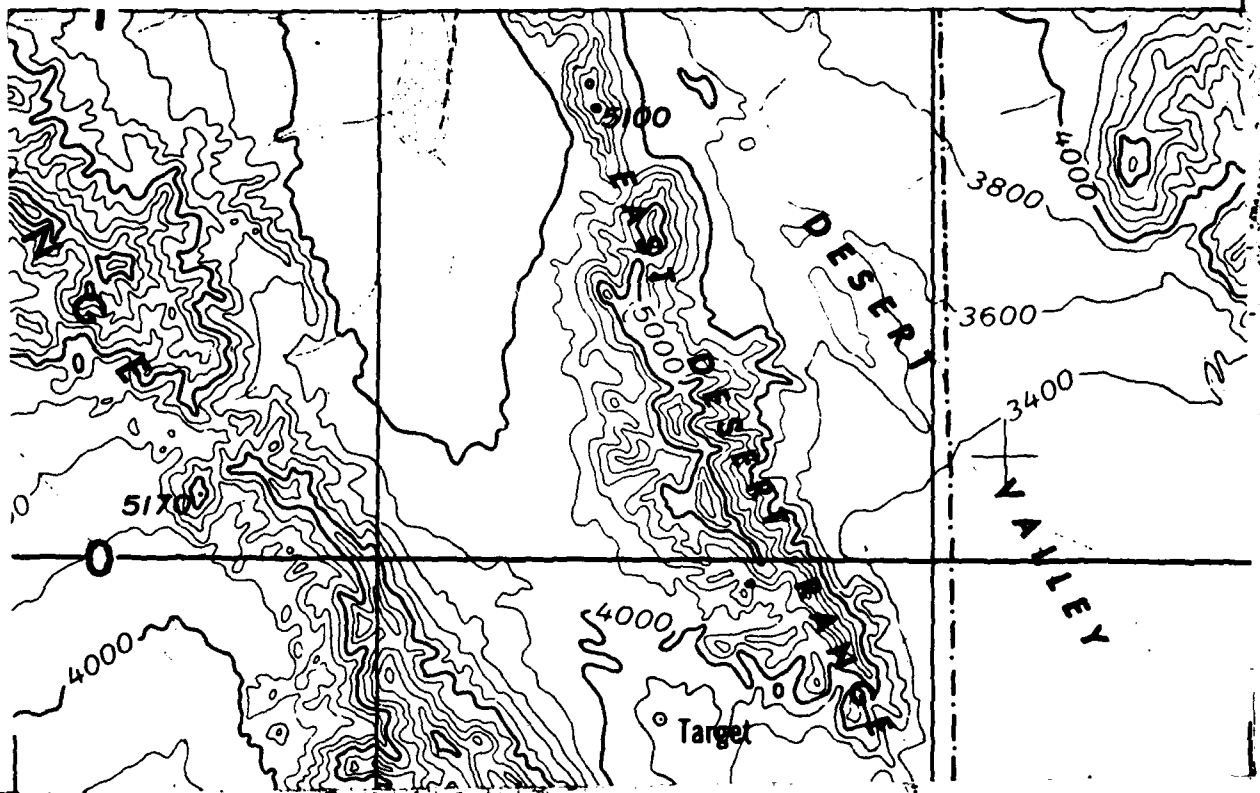
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37°07'00"N

T11S

NONE

T12S



R60E
115°15'00"W

R61E

SEE DRAWING #28

R62E

115°00'00"W

DESIGNATED TRANSPORTATION NETWORK (DTN)

MX POWERLINE

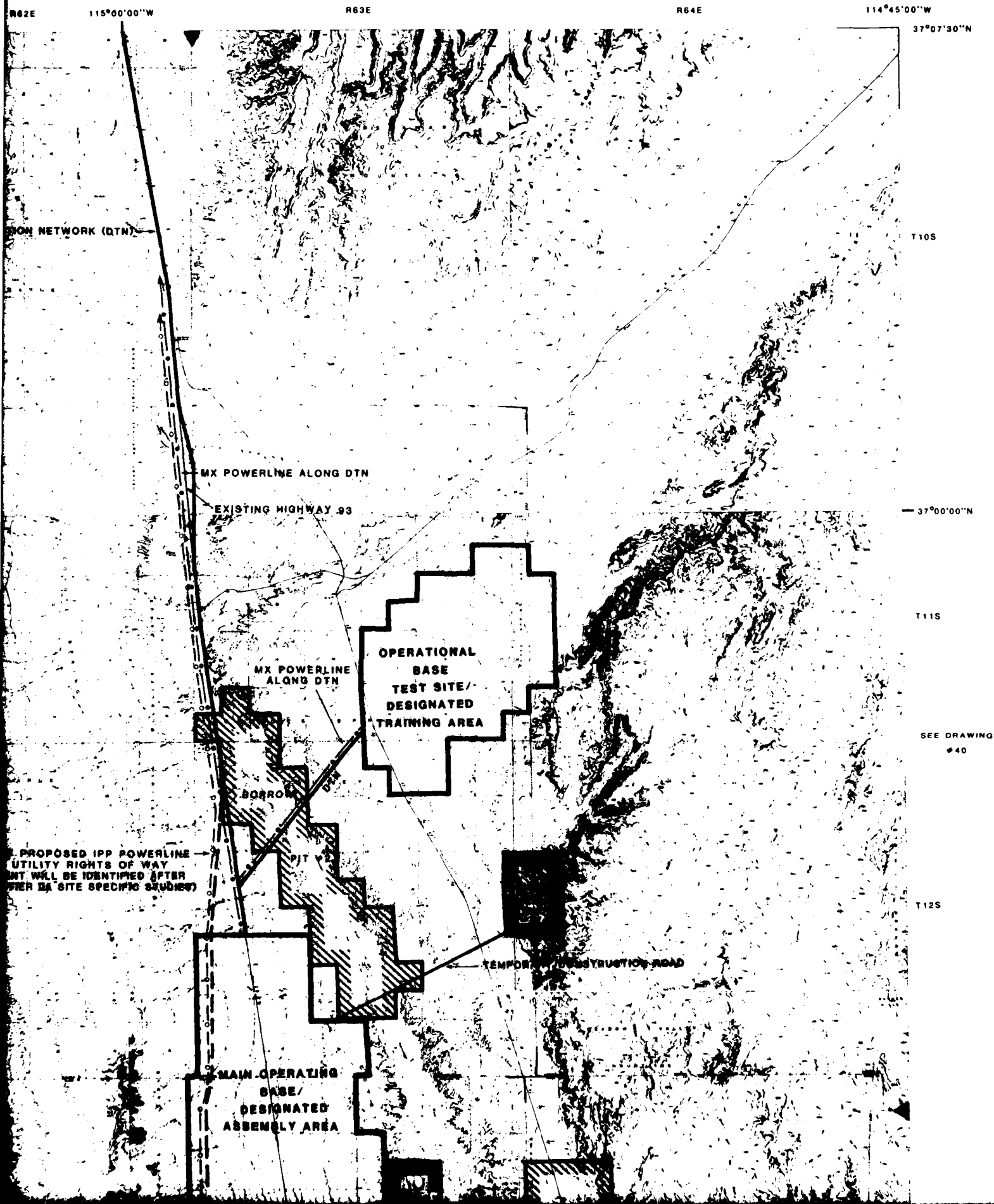
EXISTING

MX

BOAR

RELOCATION OF PROPOSED IPP POWERLINE
AND OTHER UTILITY RIGHTS OF WAY
EXACT ALIGNMENT WILL BE IDENTIFIED AFTER
COMPLETION OF TIER 2A SITE SPECIFIC STUDY

MAIN-OPP
SAS
DESIGN
ASSEMBLY



SEE DRAWING #40

NONE

T12S

T13S

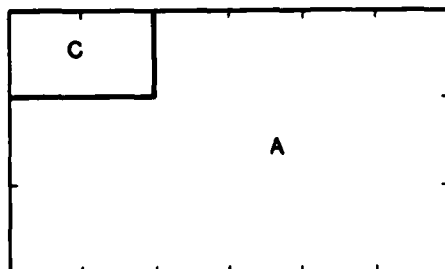
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R58E

R59E

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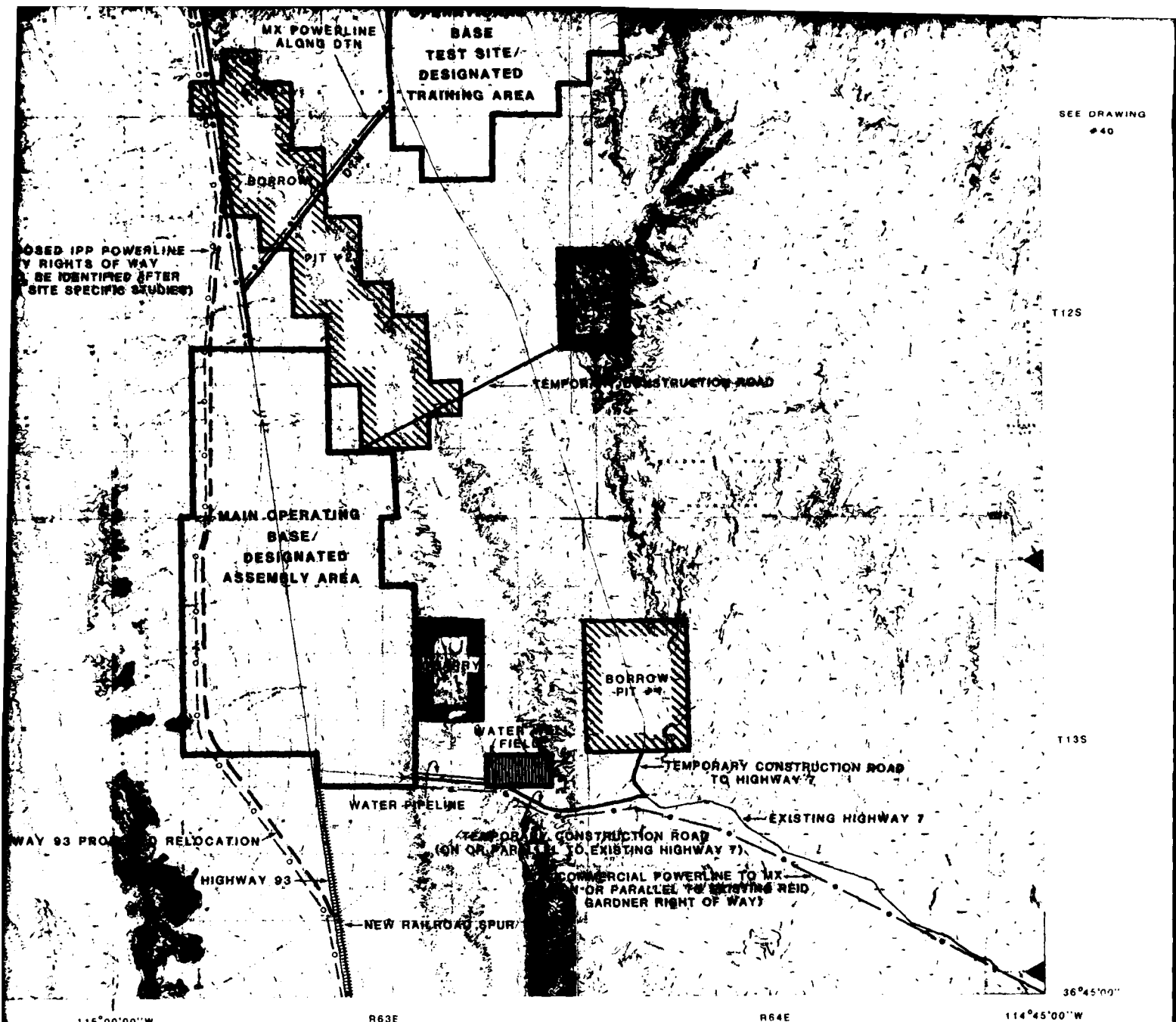


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B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



SEE DRAWING
#40

T12S

T13S

36°45'00\"

115°00'00\"

R63E

R64E

114°45'00\"

PROJECT MAP SHEET

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COUNTY: LINCOLN, CLARK	STATE ROADS: HWY 7
LOCAL COMMUNITY: NONE	FEDERAL ROADS: HWY 93

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

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CHECKED BY <i>A. Sande</i>	
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SITING <i>F. J. Hughes</i>	11/7/81
ENVIRONMENTAL	

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MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

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R58E

R59E

37°07'00" N

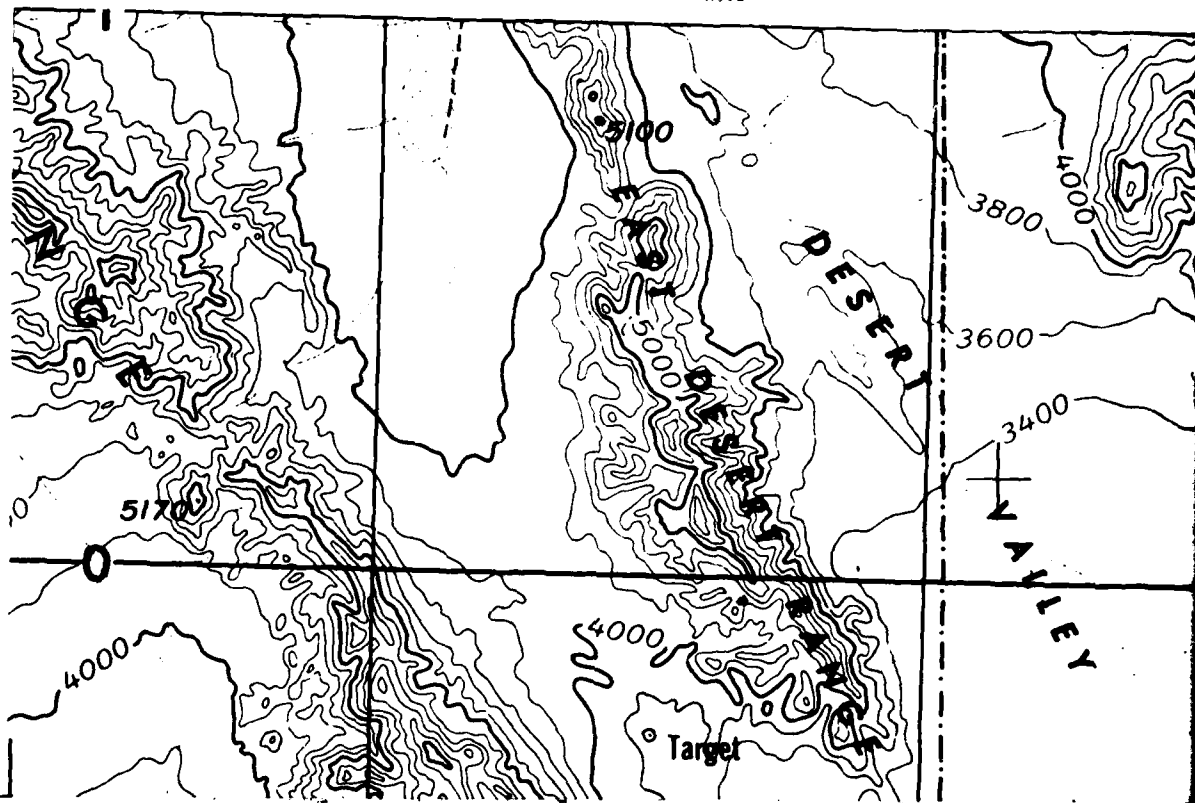
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T11S

NONE

T12S



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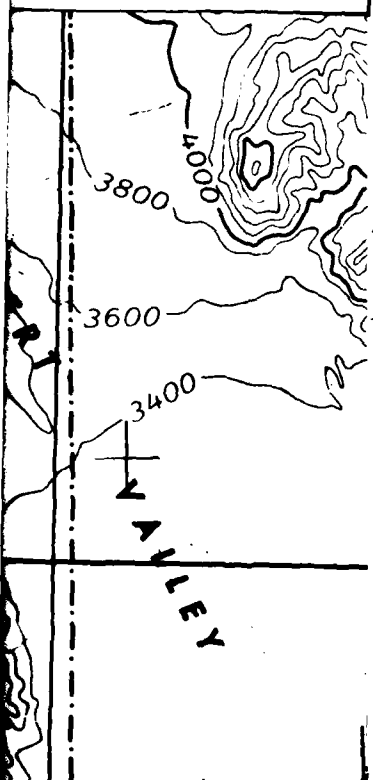
115 15 00 W

R61E

SEE DRAWING #28

R62E

115°00'00"



DESIGNATED TRANSPORTATION NETWORK (DTN)

MX POWERLINE

RELOCATION OF
IPP POWERLINE
AND OTHER UTIL
RIGHTS OF WAY
CONTACT ALIGNMENT

115°00'00"W

R63E

R64E

114°45'00"W

37°07'30"N

NETWORK (DTN)

EXISTING HIGHWAY 93

MX POWERLINE ALONG DTN

T10S

37°00'00"N

T11S

SEE DRAWING
40

T12S

OPERATIONAL
BASE
TEST SITE/
DESIGNATED
TRAINING AREA

BORROW
PIT

MX POWERLINE ALONG DTN

TEMPORARY CONSTRUCTION ROAD

MAIN OPERATING
BASE/
DESIGNATED
ASSEMBLY AREA

SECTION OF PROPOSED
POWERLINE
AND OTHER UTILITY
RIGHTS OF WAY
ADJACENT TO

NONE

T12S

T13S

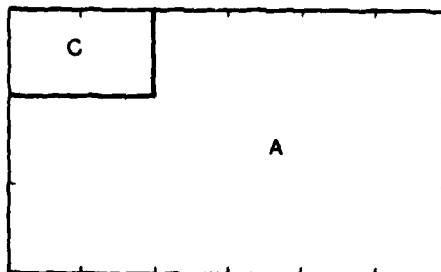
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115°30'00"W

4556E

4556E

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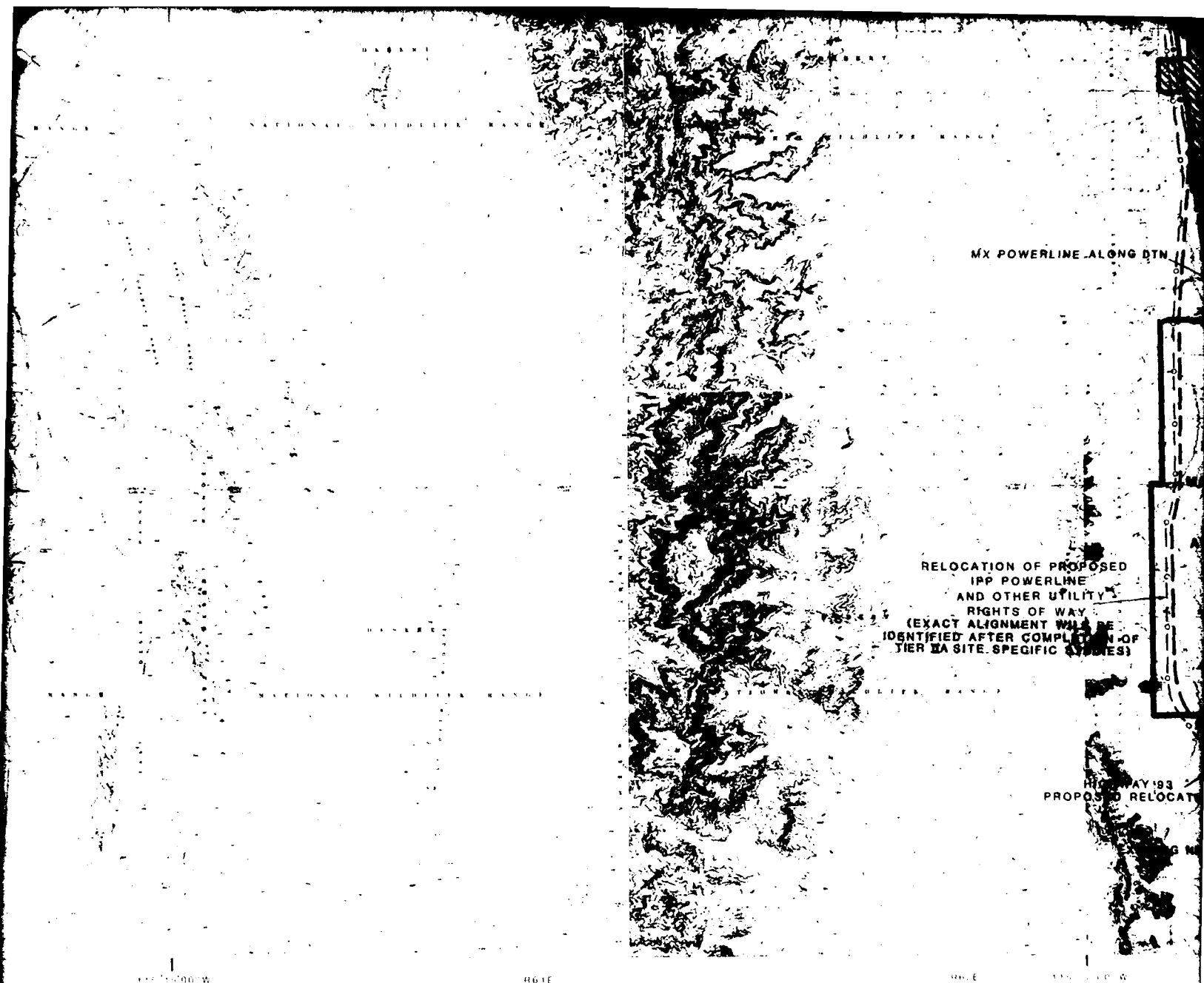


A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

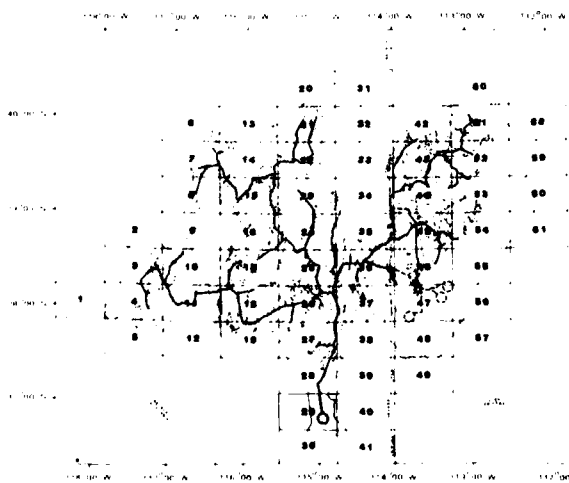
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AT 1:62,500



MAP SHEET LOCATION

USGS (1:24,000)
USGS (1:62,500)
USGS (1:250,000)

TRIC METHOD: BY
FUGRO GEOMATICS



SEE DRAWING # 30



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

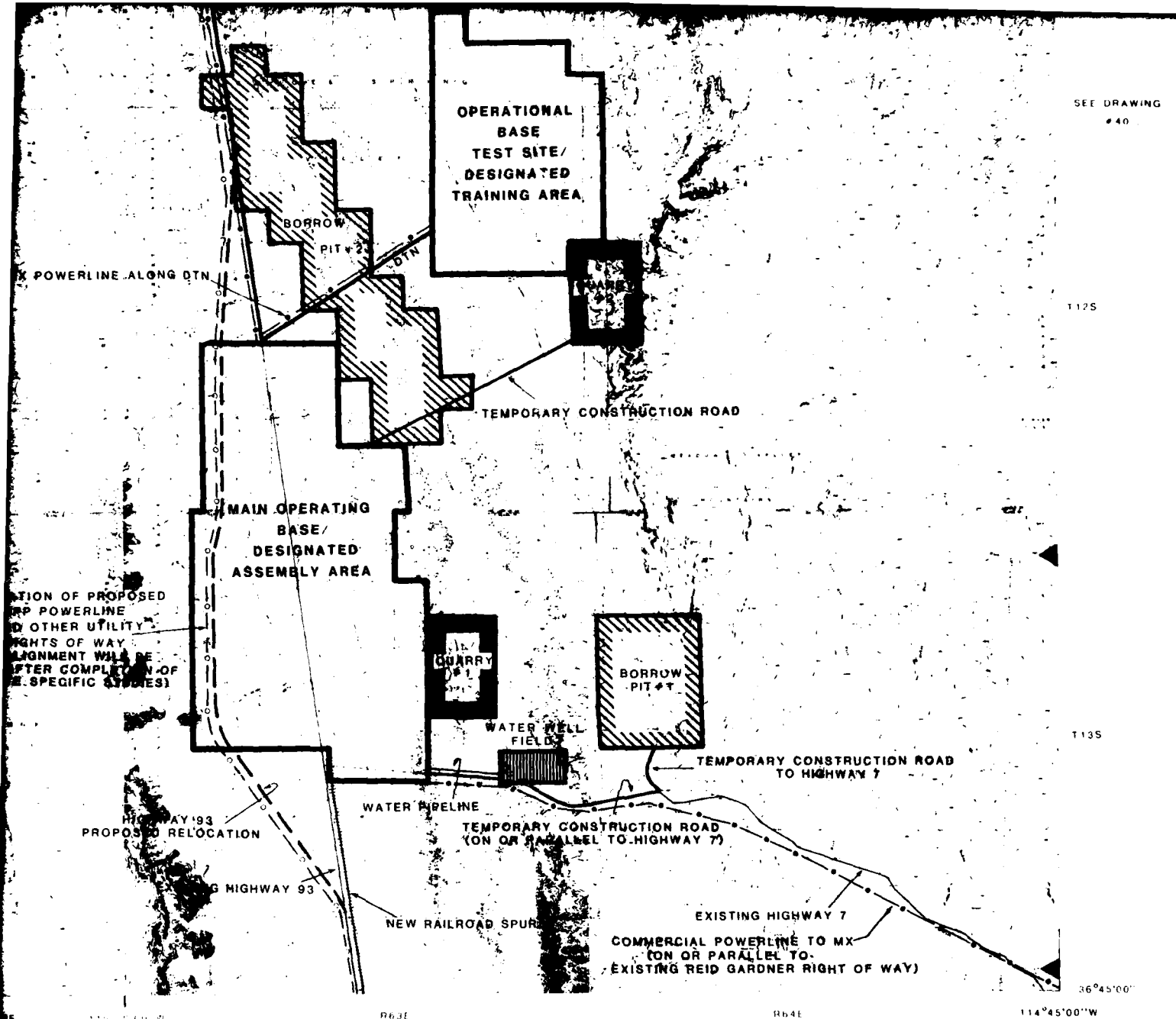
SCALE 1:62,500



NOTE:
DUE TO MAP SCALE REDUCTION
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PROJECT MAP SHEET

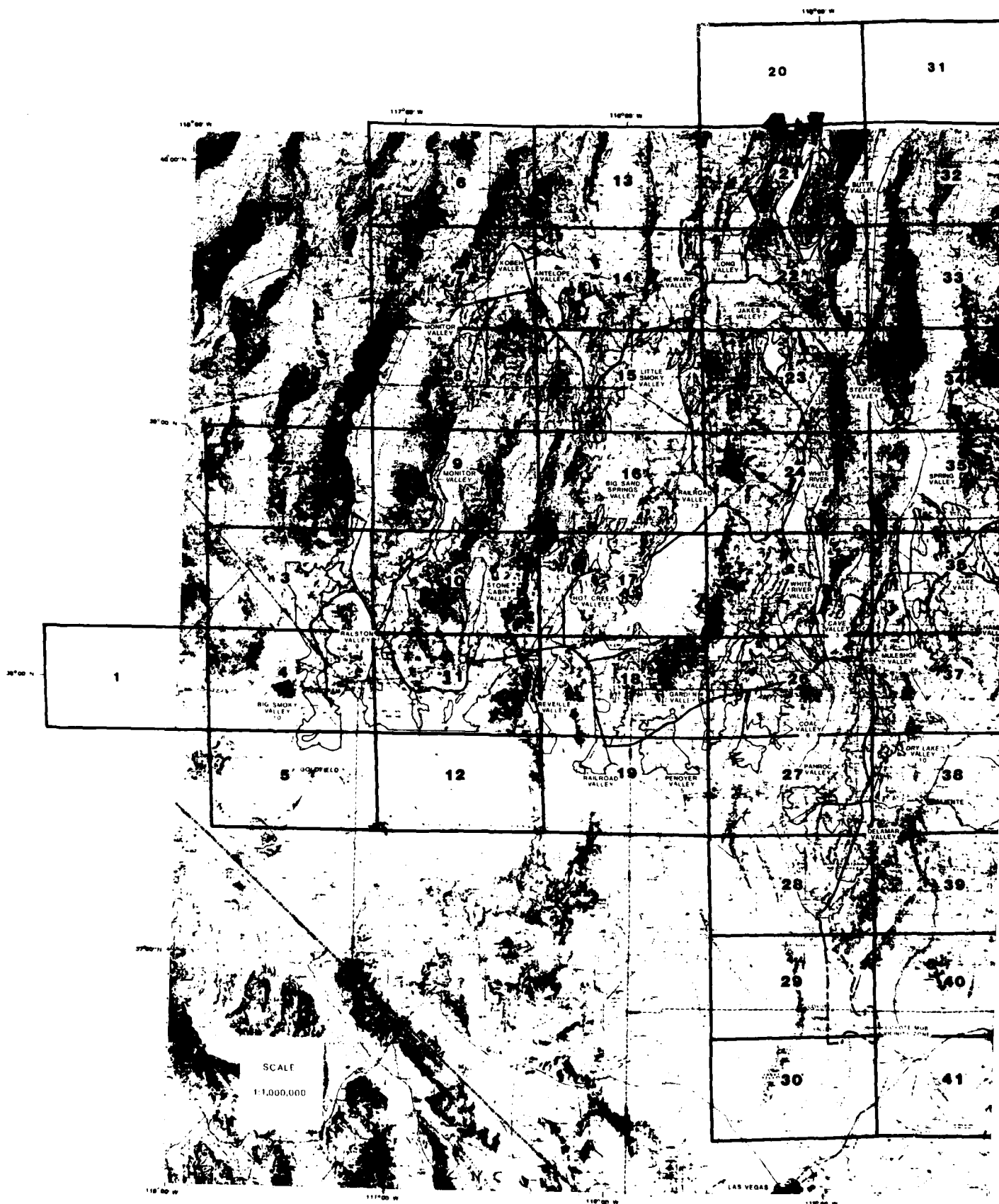
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LOCAL COMMUNITY: NONE	FEDERAL ROADS: HWY 93

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AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

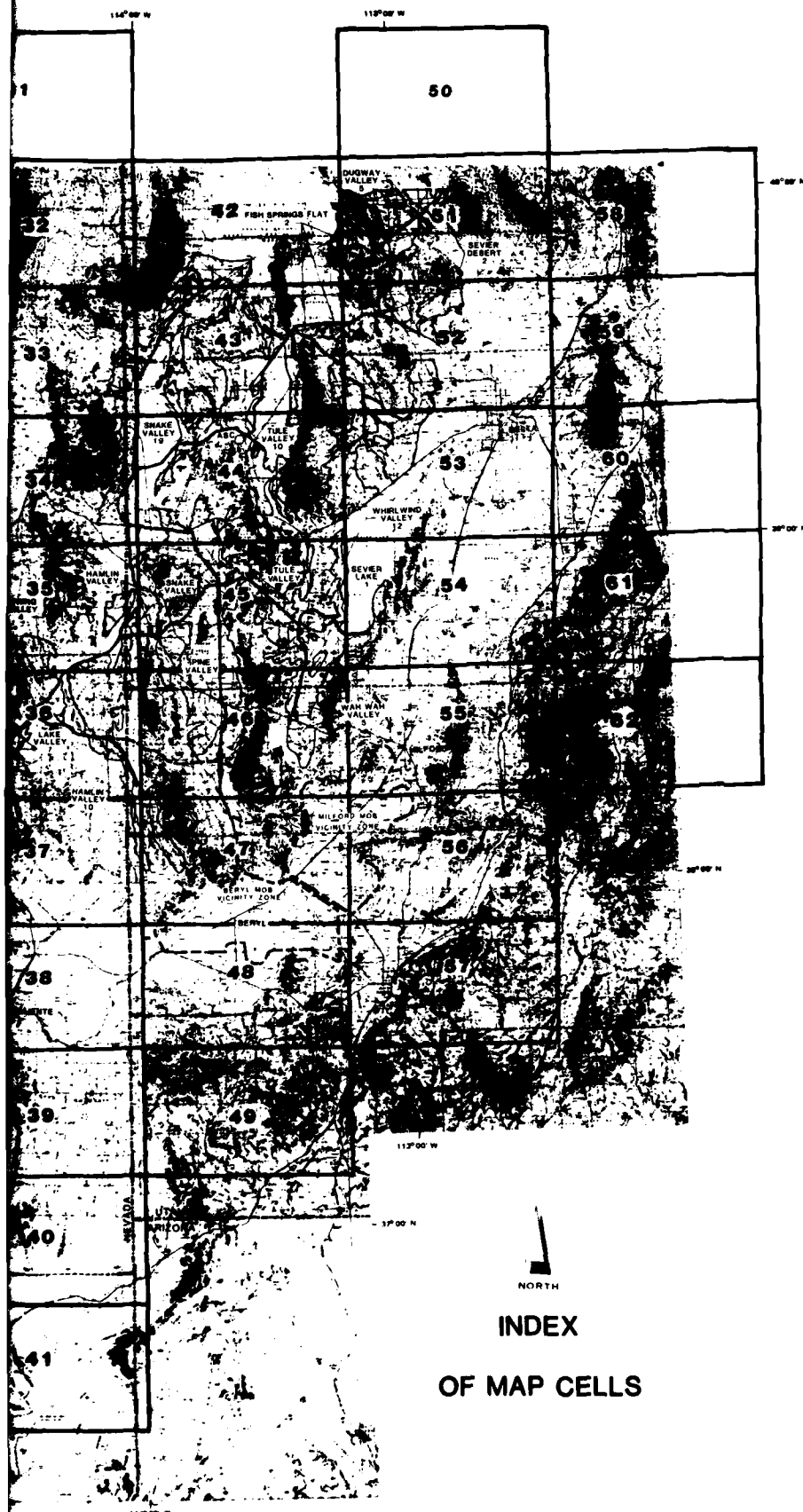
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ENVIRONMENTAL			
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REVISIONS



EXPLANATORY NOTES



1. THE INDEX MAP AT THE LEFT DEPICTS THE ORIENTED MAP CELLS RELATIVE TO THE PROPOSED MX DEPLOYMENT IN NEVADA AND UTAH. TO PRODUCE "E" SIZE DRAWINGS, A GRID WAS GENERATED FROM AN ORIGIN AT 39°N LATITUDE LONGITUDE. EACH CELL COVERS A GROUND DISTANCE OF 24 MILES BY 40 MILES (22.5 MINUTES OF LATITUDE BY 40 MINUTES OF LONGITUDE) AND IS ASSIGNED AN INDEX NUMBER AS SHOWN ON THE INDEX MAP AT THE LEFT. THE GRID WAS GENERATED TO COVER THE OUTER HYDROGRAPHIC BASIN BOUNDARIES INCLUDED IN THE PRELIMINARY SITING OF THE HORIZONTAL SHELTER SITE. THE GRID INCLUDES THE 36 VALLEYS IN NEVADA AND UTAH, PRELIMINARY SITING OF THE HORIZONTAL SHELTER SITE, MAINTENANCE FACILITIES, CLUSTER ROADS, BARRIERS, AND THE AREAS WHERE THE DESIGNATED TRANSPORTATION NETWORK, AREA SUPPORT CENTERS, AND OPERATING BASE OPTIONS ARE LOCATED.

2. LAND SUB-DIVISION, IN THE FORM OF TOWNSHIP RANGE CORNERS OR SUB-DIVISIONS THEREOF, WERE COPIED FROM USGS MAPS. NO ATTEMPT WAS MADE TO LOCATE, VERIFY OR RELOCATE LAND SUB-DIVISION CORNERS. IT IS NOT THE INTENT OF THIS MAP TO ESTABLISH OR IMPLY THAT SECTION CORNERS OR SUB-DIVISIONS THEREOF ARE IN EXISTENCE OR ARE KNOWN TO BE IN EXISTENCE. THAT THEY SHOULD BE LOCATED WHERE SHOWN ON THESE MAPS.

3. THE INDEXING OF TOWNSHIP AND RANGE NUMBERS IS INDICATED BY THE EDGES OF THE MAP CELL. IF A TOWNSHIP WAS SUBTRACTED ON THE USGS BASE MAP, A DARK TRIANGULAR MARK APPEARS AT THE MAP CELL EDGE. THE ABSENCE OF A MARK INDICATES THAT THE TOWNSHIP IS UNPROTRACTED. HOWEVER, THE INDEX NUMBER OF THE TOWNSHIP OR RANGE IS SHOWN AT THE MAP CELL EDGE FOR REFERENCE PURPOSES.

4. THE CONTOUR BASE MAPS ARE PHOTOGRAPHIC COMPILED FROM USGS TOPOGRAPHIC QUADRANGLE MAPS AT 1:24,000, 1:50,000, AND 1:250,000 PUBLISHED SCALES. THESE MAPS WERE PHOTOGRAPHICALLY REDUCED, COPIED, OR ENLARGED TO ABOUT 1:62,500 SCALE. NEGATIVES WERE BUTT SPICED AND EDGE MATCHED TO MAINTAIN GRAPHIC CONTINUITY WHERE POSSIBLE. WHEN OFFSETS OCCURRED, SPICING WAS PERFORMED SO AS TO MAINTAIN CONTROL AT MAP GRID CELL CENTER.

5. IN SOME INSTANCES WHERE USGS PUBLISHED MAPS WERE FROM AERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRIC) 1:62,500 SCALE TOPOGRAPHIC MAPS FROM AERIAL PHOTOGRAPHY. ON SOME OF THE FOLLOWING MAPS THE CULTURAL FEATURES ARE CURRENT DUE TO THE AGE OF THE AVAILABLE BASE MAP. SUBSEQUENT REVISIONS WILL INCORPORATE THE MOST CURRENT DATA AS THEY BECOME AVAILABLE FROM THE USGS.

6. M.P.S. LAYOUTS ARE BASED ON BMO/AFRC-MX SITE MAPS OF 6 JUNE 1980 AND SUBSEQUENT DIRECTIVES. THE MAP UTILIZES 5200-FT HORIZONTAL SPACING, 2/3 FILLED PATTERN, MINIMUM 55° ANGLE OFFSET BETWEEN ADJACENT MAPS, AND A DIRECT CONNECT ROAD PATTERN (SCHEMATIC) BETWEEN LOCATIONS. SHELTERS ARE GROUPED TO FORM IN CLUSTERS OF 23 PRIMARY SHELTERS. EACH CLUSTER IS IDENTIFIED BY A NUMBER. EACH SHELTER BY TWO NUMBERS, THUS EACH HORIZONTAL MAP BEARS A NUMERICAL INDEX OF WHICH THE FIRST DIGIT IS THE CLUSTER NUMBER AND THE LAST SINGLE OR DOUBLE DIGIT IS THE SHELTER NUMBER WITHIN THAT CLUSTER (1-23). EXCEPT FOR THE VALLEYS (DRY LAKE, PINE, WAH-WAH) NONE OF THE MAP CELLS WERE SITED BY SITE SPECIFIC FIELD SURVEYS.

7. MAP SYMBOLS SHOWN IN THE EXPLANATION ON THIS MAP ARE TO THE INFORMATION PLACED ON THESE MAPS FOR THE

EXPLANATORY NOTES

1. THE INDEX MAP AT THE LEFT DEPICTS THE ORIENTATION OF THE MAP CELLS RELATIVE TO THE PROPOSED MX DEPLOYMENT AREA IN NEVADA AND UTAH. TO PRODUCE "E" SIZE DRAWINGS, A RECTANGULAR GRID WAS GENERATED FROM AN ORIGIN AT 39°N LATITUDE AND 114°W LONGITUDE. EACH CELL COVERS A GROUND DISTANCE OF ABOUT 24 MILES BY 40 MILES (22.5 MINUTES OF LATITUDE BY 45 MINUTES OF LONGITUDE) AND IS ASSIGNED AN INDEX NUMBER AS PER THE INDEX MAP AT THE LEFT. THE GRID WAS GENERATED TO ENCOMPASS THE OUTER HYDROGRAPHIC BASIN BOUNDARIES INCLUDED IN THE D.E.I.S WHICH INCLUDES THE 36 VALLEYS IN NEVADA AND UTAH USED IN THE PRELIMINARY SITING OF THE HORIZONTAL SHELTER SITES, CLUSTER MAINTENANCE FACILITIES, CLUSTER ROADS, BARRIERS, AS WELL AS THE AREAS WHERE THE DESIGNATED TRANSPORTATION NETWORK ROAD, AREA SUPPORT CENTERS, AND OPERATING BASE OPTIONS ARE LOCATED.

2. LAND SUB-DIVISION, IN THE FORM OF TOWNSHIP RANGES, SECTION CORNERS OR SUB-DIVISIONS THEREOF, WERE COPIED FROM EXISTING MAPS. NO ATTEMPT WAS MADE TO LOCATE, VERIFY OR IDENTIFY ANY LAND SUB-DIVISION CORNERS. IT IS NOT THE INTENT OF THESE MAPS TO ESTABLISH OR IMPLY THAT SECTION CORNERS OR SUB-DIVISIONS THEREOF ARE IN EXISTENCE OR ARE KNOWN TO BE IN EXISTENCE OR THAT THEY SHOULD BE LOCATED WHERE SHOWN ON THESE MAPS.

THE INDEXING OF TOWNSHIP AND RANGE NUMBERS IS INDICATED AT THE EDGES OF THE MAP CELL. IF A TOWNSHIP WAS SURVEYED OR PROTRACTED ON THE USGS BASE MAP, A DARK TRIANGULAR FIDUCIAL MARK APPEARS AT THE MAP CELL EDGE. THE ABSENCE OF THE FIDUCIAL MARK INDICATES THAT THE TOWNSHIP IS UNPROTRACTED, HOWEVER, THE INDEX NUMBER OF THE TOWNSHIP OR RANGE IS ANNOTATED AT THE MAP CELL EDGE FOR REFERENCE PURPOSES.

3. THE CONTOUR BASE MAPS ARE PHOTOGRAPHIC COMPILATIONS USING USGS TOPOGRAPHIC QUADRANGLE MAPS AT 1:24,000, 1:62,500 AND 1:250,000 PUBLISHED SCALES. THESE MAPS WERE PHOTOGRAPHICALLY REDUCED, COPIED, OR ENLARGED TO ABOUT 1:62,500 MAP SCALE. THE NEGATIVES WERE BUTT SPLICED AND EDGE MATCHED TO MAINTAIN GRAPHIC CONTINUITY WHERE POSSIBLE. WHEN OFFSETS WERE ENCOUNTERED, SPLICING WAS PERFORMED SO AS TO MAINTAIN MAXIMUM CONTROL AT MAP GRID CELL CENTER.

IN SOME INSTANCES WHERE USGS PUBLISHED MAPS WERE NOT AVAILABLE, ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS) PRODUCED 1:62,500 SCALE TOPOGRAPHIC MAPS FROM AERIAL PHOTOGRAPHS.

ON SOME OF THE FOLLOWING MAPS THE CULTURAL FEATURES ARE NOT CURRENT DUE TO THE AGE OF THE AVAILABLE BASE MAPS. SUBSEQUENT REVISIONS WILL INCORPORATE THE MOST CURRENT DATA AS THEY BECOME AVAILABLE FROM THE USGS.

4. M.P.S. LAYOUTS ARE BASED ON BMO/AFRC-MX SITING REQUIREMENTS OF 6 JUNE 1980 AND SUBSEQUENT DIRECTIVES. THE GEOMETRY UTILIZES 5200-FT HORIZONTAL SPACING, 2/3 FILLED HEXAGONAL PATTERN, MINIMUM 55° ANGLE OFFSET BETWEEN ADJACENT STRUCTURES AND A DIRECT CONNECT ROAD PATTERN (SCHEMATIC) BETWEEN SHELTER LOCATIONS. SHELTERS ARE GROUPED TO FORM IN CLUSTERS EACH OF 23 PRIMARY SHELTERS. EACH CLUSTER IS IDENTIFIED BY A NUMBER; EACH SHELTER BY TWO NUMBERS, THUS EACH HORIZONTAL SHELTER SITE BEARS A NUMERICAL INDEX OF WHICH THE FIRST DIGIT IS THE CLUSTER NUMBER AND THE LAST SINGLE OR DOUBLE DIGIT IS THE SHELTER NUMBER WITHIN THAT CLUSTER (1-23). EXCEPT FOR THE THREE I.O.C. VALLEYS (DRY LAKE, PINE, WAH-WAH) NONE OF THE FACILITIES WERE SITED BY SITE SPECIFIC FIELD SURVEYS.

5. MAP SYMBOLS SHOWN IN THE EXPLANATION ON THIS SHEET PERTAIN TO THE INFORMATION PLACED ON THESE MAPS FOR THE MX PROGRAM.

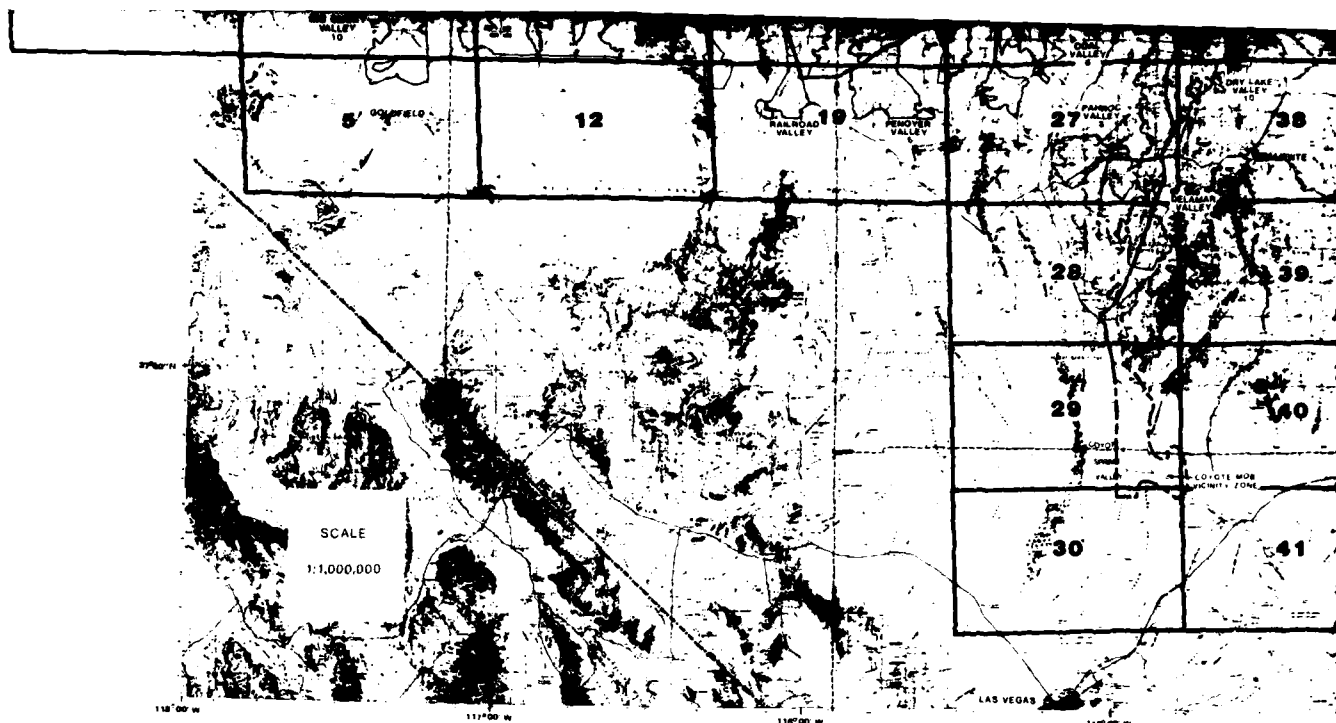
SYMBOLS USED ON 1:62,500 MAPS

MULTIPLE PROTECTIVE STRUCTURE LAYOUTS

- CLUSTER ROAD NETWORK (CRN)
- DESIGNATED TRANSPORTATION NETWORK (DTN)
- CLUSTER MAINTENANCE FACILITY (CMF)
- HORIZONTAL SHELTER SITES (HSS)
- | BARRIER
- ① CLUSTER NUMBER
- ▲ TOWNSHIP FIDUCIAL MARKS (SEE EXPLANATORY NOTE #2)

MAIN OPERATING BASE LAYOUTS

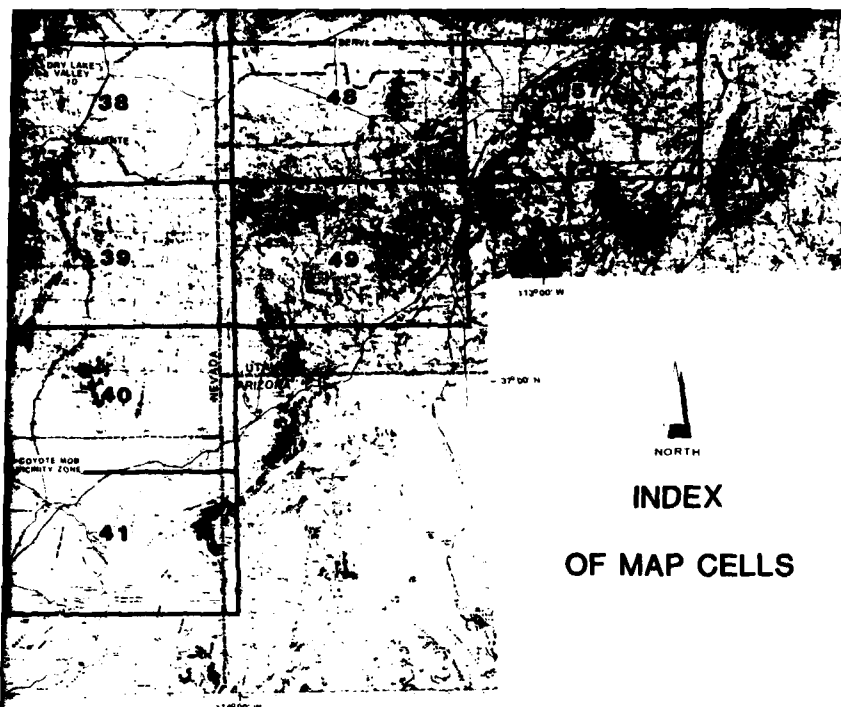
- ACCESS ROAD OR TEMPORARY CONSTRUCTION ROAD
- WATER PIPELINE
- MX POWERLINES
- PROPOSED INTERMOUNTAIN POWER PROJECT (IPP) POWERLINES
- RELOCATION OF PROPOSED INTERMOUNTAIN POWER PROJECT (IPP) POWERLINES
- |||| RAILROAD SPUR OR SIDING
- BORROW PIT
- ▨ QUARRIES
- ▨ WATER FIELD



MAP CELL CROSS REFERENCE INDICES

VALLEY NAME	15 MAY 1981 CLUSTER COUNT	CELL NUMBERS	CELL NUMBER	VALLEY NAME	CELL NUMBER	VALLEY NAME	UTAH
<u>UTAH</u>				<u>NEVADA</u>			
DUGWAY	5	51, 52	1*		19	GARDEN	
FISH SPRINGS FLAT	2	42, 51, 52	2	BIG SMOKY		PENOVER	
PINE	5	45, 46, 47	3	BIG SMOKY		REVEILLE	
SEVIER DESERT	2	51, 52		REVEILLE	20	RAILROAD	
SEVIER LAKE	1	53, 54	4	BIG SMOKY		BUTTE	
SNAKE	19	33, 34, 35, 42, 43, 44, 45, 46		REVEILLE	21	LONG	
TULE	10	43, 44, 45	5	BIG SMOKY		BUTTE	
WAH WAH	5	45, 46, 54	6	KOBEH	22	LONG	
WHIRLWIND	12	52, 53	7			BUTTE	
<u>NEVADA</u>						JAKES	
ANTELOPE	4	7, 8, 14, 15	8	ANTELOPE	23	LONG	
BIG SAND SPRINGS	3	16, 17		KOBEH		NEWARK	
BIG SMOKY	10	2, 3, 4, 5	9	MONITOR		JAKES	
BUTTE	9	20, 21, 22	10	ANTELOPE	24	NEWARK	
CAVE	3	24, 25, 35, 36		MONITOR	25	RAILROAD	
COAL	6	26, 27	11	MONITOR		WHITE RIVER	
DELAMAR	3	27, 28	12	HOT CREEK	26	CAVE	
DRY LAKE	10	26, 27, 37, 38		MONITOR		GARDEN	
GARDEN	6	18, 19, 25, 26, 27	13	RAILSTON	27	RAILROAD	
HAMLIN	10	35, 36, 45, 46, 47		STONE CABIN	28	WHITE RIVER	
HOT CREEK	6	10, 11, 16, 17, 18	14	REVEILLE	29	CAVE	
JAKES	3	22, 23	15	REVEILLE	30*	GARDEN	
KOBEH	5	6, 7, 13, 14			31*	MULESHOE	
LAKE	7	35, 36, 37	16		32*	RAILROAD	
LITTLE SMOKY	4	14, 15, 16	17	ANTELOPE	33	WHITE RIVER	
LONG	4	20, 21, 22		KOBEH	34	DRY LAKE	
MONITOR	6	7, 8, 9, 10	18	LITTLE SMOKY	35	COAL	
MULESHOE	3	25, 26, 36, 37		NEWARK		DELAMAR	
NEWARK	5	14, 15, 22, 23		RAILROAD		DRY LAKE	
PAHROC	3	27				GARDEN	
PENOVER	5	18, 19				PAHROC	
RAILROAD	13	15, 16, 17, 18, 19, 24, 25				DELAMAR	
RAILSTON	9	3, 4, 10, 11				COYOTE SPRING MOB	
REVEILLE	3	11, 12, 18, 19					
SPRING	4	35, 36					
STONE CABIN	8	10, 11					
WHITE RIVER	12	24, 25					

*CELL DOES NOT INCLUDE VALLEY WITH NPS LAYOUT



INDICES

<u>NAME</u>	<u>CELL NUMBER</u>	<u>VALLEY NAME</u>	<u>CELL NUMBER</u>	<u>VALLEY NAME</u>
<u>UTAH</u>		<u>NEVADA</u>		<u>UTAH</u>
	36	CAVE HAMLIN LAKE MULESHOE SPRING	53	SEVIER LAKE WHIRLWIND
	37	DRY LAKE LAKE MULESHOE	54	SEVIER LAKE WAH WAH
	38	DRY LAKE	55*	
	39*		56	MILFORD MOB
	40*		57*	
	41*		58*	
	42		59*	
		FISH SPRINGS FLAT SNAKE	60*	
	43		61*	
		FISH SPRINGS FLAT SNAKE TULE WHIRLWIND		
	44			
		SNAKE TULE WHIRLWIND		
	45	HAMLIN		
		PINE SNAKE TULE WAH WAH WHIRLWIND		
	46	HAMLIN		
		PINE SNAKE WAH WAH		
	47			
		HAMLIN PINE BERYL MOB MILFORD MOB		
	48			
		BERYL MOB		
	49*			
	50*			
	51			
		DUGWAY FISH SPRINGS FLAT SEVIER DESERT WHIRLWIND		
SNAKE				
SNAKE				
SNAKE	52			
		DUGWAY FISH SPRINGS FLAT SEVIER DESERT WHIRLWIND		

REDUCED, COPIED, OR ENLARGED TO ABOUT
NEGATIVES WERE BUTT SPLICED AND EDGE MAT
GRAPHIC CONTINUITY WHERE POSSIBLE. WHEN
TERED, SPLICING WAS PERFORMED SO AS TO MAINTAIN
TROL AT MAP GRID CELL CENTER.

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5. MAP SYMBOLS SHOWN IN THE EXPLANATION TO THE INFORMATION PLACED ON THESE MAPS. AN EXPLANATION OF SYMBOLS FOR THE USGS IS INCLUDED. IT IS ASSUMED THAT THE READER IS FAMILIAR WITH THE STANDARD USGS TOPOGRAPHIC MAPPING SYMBOLS.

6. THE DTN ROAD ALIGNMENTS IN THE 1:62,500 MAP SHEET NO. 22-10-1-100, THE APPROXIMATE CENTER LINE OF THE PROPOSED HIGHWAY IS SHOWN. WHERE THESE PROPOSED ALIGNMENTS DEPART FROM EXISTING TANGENT LINE SEGMENTS ARE USED TO INDICATE THE LOCATION OF THESE TANGENT LINE SEGMENTS HAVE NOT BEEN ASSIGNED DESIGN RADII OF CURVATURE.

7. THE O.B. AND O.B.T.S. BOUNDARIES, SCALE REPRESENT A GENERALIZED SITING AND NEAREST ONE-QUARTER SECTION. FINALIZAT FACILITY LOCATION WILL BE WITHIN THIS AREA THAN IS ENCLOSED BY THE CURRENT DE

8. THE MATERIAL SITES BOUNDARIES SHOWN
GENERALIZED AREAS DELINEATED TO THE NEAR
SECTION. FINALIZATION OF THE SPECIFIC
WILL DICTATE WHETHER THE IDENTIFIED MATERIALS
USED AND TO WHAT EXTENT THEY ARE TO BE

[illegible]

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5. MAP SYMBOLS SHOWN IN THE EXPLANATION ON THIS SHEET PERTAIN TO THE INFORMATION PLACED ON THESE MAPS FOR THE MX PROGRAM. AN EXPLANATION OF SYMBOLS FOR THE USGS BASE MAPS IS NOT INCLUDED. IT IS ASSUMED THAT THE READER IS FAMILIAR WITH THE STANDARD USGS TOPOGRAPHIC MAPPING SYMBOLS.

6. THE DTM ROAD ALIGNMENTS IN THE 1:62,500 MAPS REPRESENT THE APPROXIMATE CENTER LINE OF THE PROPOSED DTM RIGHT-OF-WAY. WHERE THESE PROPOSED ALIGNMENTS DEPART FROM EXISTING ROADS, TANGENT LINE SEGMENTS ARE USED TO INDICATE THE ALIGNMENT. THESE TANGENT LINE SEGMENTS HAVE NOT CONSIDERED THE ROAD DESIGN RADII OF CURVATURE.

7. THE O.B. AND O.B.T.S. BOUNDARIES, SHOWN AT 1:62,500 MAP SCALE REPRESENT A GENERALIZED SITING AREA DELINEATED TO THE NEAREST ONE-QUARTER SECTION. FINALIZATION OF THE SPECIFIC FACILITY LOCATION WILL BE WITHIN THIS AREA AND OCCUPY LESS AREA THAN IS ENCLOSED BY THE CURRENT DEPICTION.

8. THE MATERIAL SITES BOUNDARIES SHOWN AT 1:62,500 REPRESENT GENERALIZED AREAS DELINEATED TO THE NEAREST ONE-QUARTER SECTION. FINALIZATION OF THE SPECIFICS REGARDING CONSTRUCTION WILL DICTATE WHETHER THE IDENTIFIED MATERIAL SITES ARE ACTUALLY USED AND TO WHAT EXTENT THEY ARE TO BE USED.

DESIGNATED TRANSPORTATION NETWORK (DTN)

CLUSTER MAINTENANCE FACILITY (CMF)

HORIZONTAL SHELTER SITES (HSS)

BARRIER

CLUSTER NUMBER

TOWNSHIP FIDUCIAL MARKS (SEE EXPLANATORY NOTE #2)

MAIN OPERATING BASE LAYOUTS

ACCESS ROAD OR TEMPORARY CONSTRUCTION ROAD

WATER PIPELINE

MX POWERLINES

PROPOSED INTERMOUNTAIN POWER PROJECT (IPP) POWERLINES

RELOCATION OF PROPOSED INTERMOUNTAIN POWER PROJECT (IPP) POWERLINES

RAILROAD SPUR OR SIDING

BORROW PIT

QUARRIES

WATER FIELD

REVISIONS					DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409			
REVISION	DATE	DESCRIPTION	SIGNATURE	DATE	SIGNATURE	DATE	EXPLANATION SHEET MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH	
					DRAWN BY <i>R. Haden</i>	10/2/91		
					CHECKED BY <i>A. Smith</i>			
					GEOTECHNICAL <i>R. Haden</i>	10/6/91		
					SITING <i>R. Haden</i>	10/6/91		
					ENVIRONMENTAL			
					SYSTEMS ENGINEER		APPROVED BY	
					CORPS OF ENGINEERS		AIR FORCE REGIONAL CIVIL ENGINEER - MX	
					APPROVED BY		DRAWING NUMBER A	
					USAF BALLISTIC MISSILE OFFICE		SHEET _____ OF _____	









SCALE 1:1,000,000

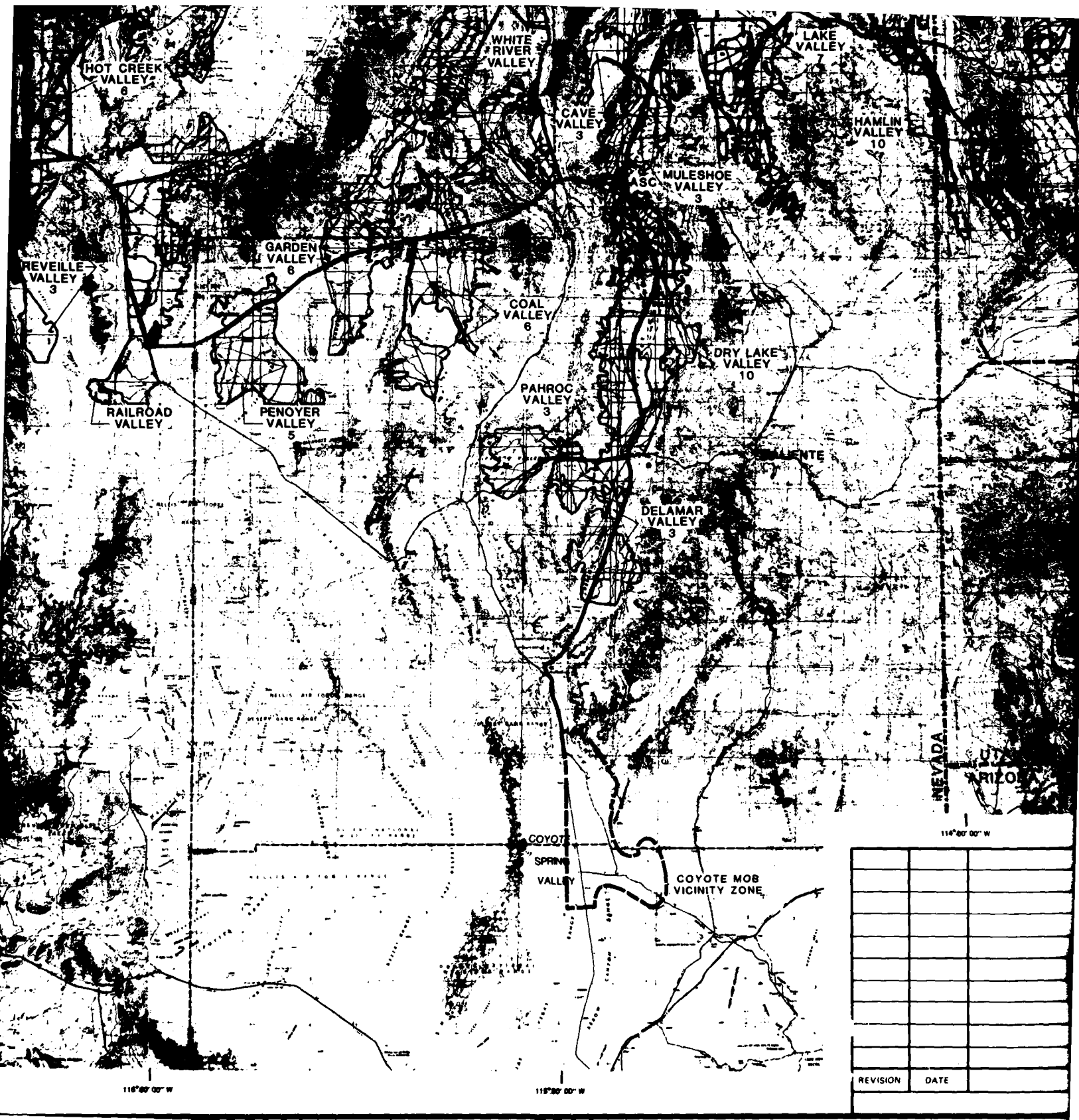
0 10 20
STATUTE MILES

0 10 20
KILOMETERS

NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:1,000,000

117°00' 00" W

116°00'



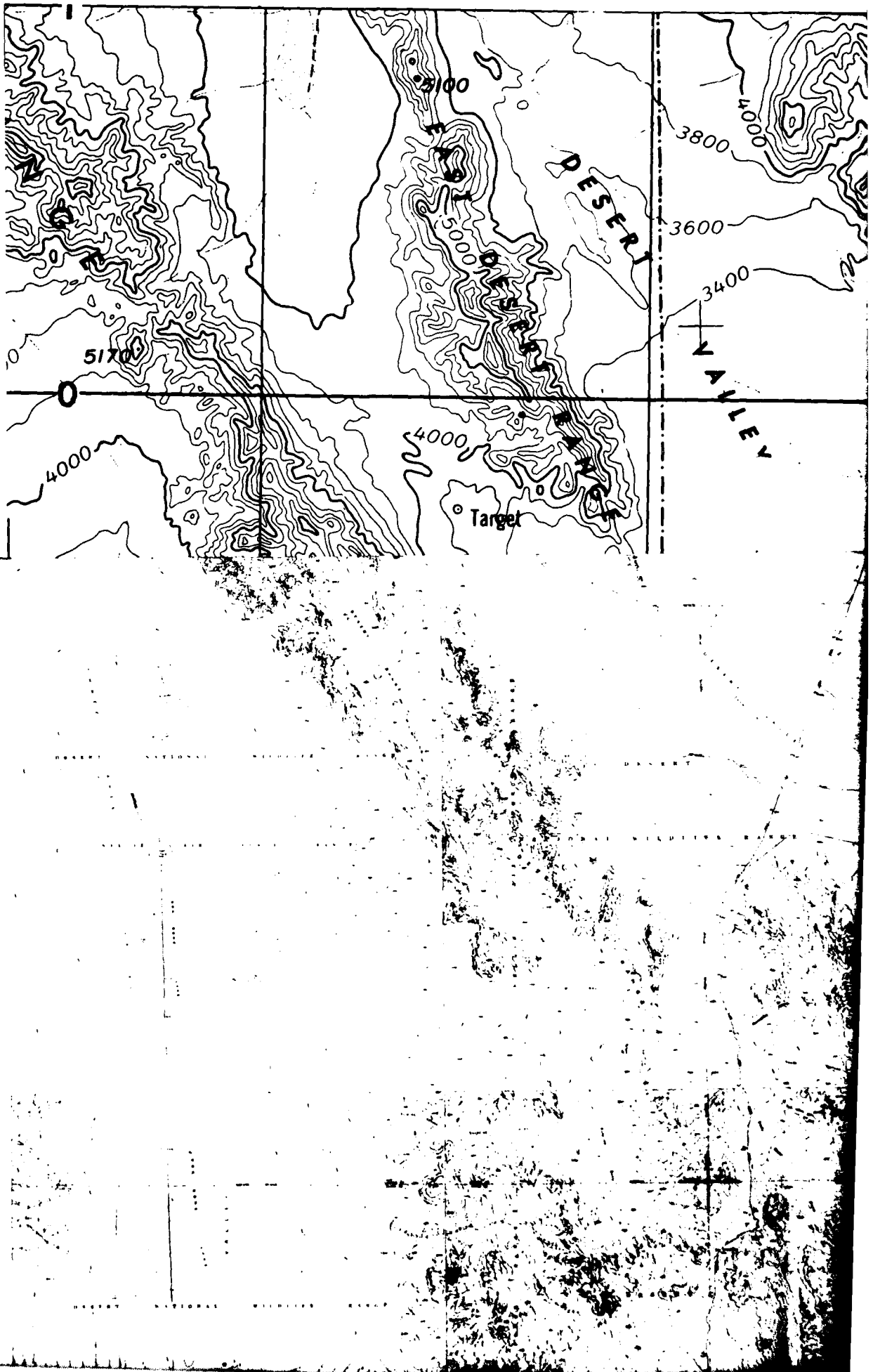
T10S

37°07'00"N

T11S

NONE

T12S



R60E

115°15'00"W

R61E

SEE DRAWING #28

R62E

115°00'00"W

DESIGNATED TRAIL

EXISTING

MX POWER

WORTH

MX POWERLINE ALONG DTN

MAIN
OPERAT
DEMN
ASSEN

RELOCATION OF PROPOSED POWERLINE
AND OTHER UTILITY RIGHTS-OF-WAY
EXACT ALIGNMENT WILL BE IDENTIFIED AFTER
COMPLETION OF TIER 2A SITE SPECIFIC STUDIES

MONDAY 83

115°00'00"W

R63E

R64E

114°45'00"W

37°07'30"N

DESIGNATED TRANSPORTATION NETWORK
(DTN)

T10S

EXISTING HIGHWAY 93

MX POWERLINE ALONG DTN

37°00'00"N

T11S

SEE DRAWING
#40

OPERATIONAL
BASE
TEST SITE/
DESIGNATED
TRAINING AREA

T12S

MX POWERLINE ALONG DTN

BORROW
PIT #2

TEMPORARY CONSTRUCTION ROAD

MAIN
OPERATING BASE/
DESIGNATED
ASSEMBLY AREA

TEMPORARY CONSTRUCTION ROAD TO HIGHWAY 93

OF PROPOSED MX POWERLINE
OR UTILITY RIGHTS-OF-WAY
WENT WILL BE IDENTIFIED AFTER
FURTHER SA SITE SPECIFIC STUDIES

HIGHWAY 93

BORROW
PIT #1

NONE

T12S

T13S

36°45'00"N

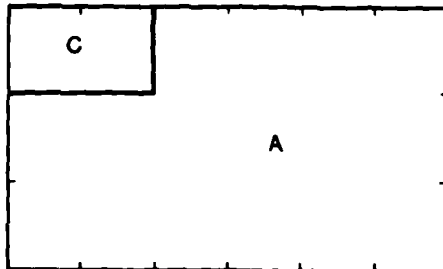
115°30'00"W

R58E

R59E

115°15'00"
R60E

BASE MAP SOURCE INSET

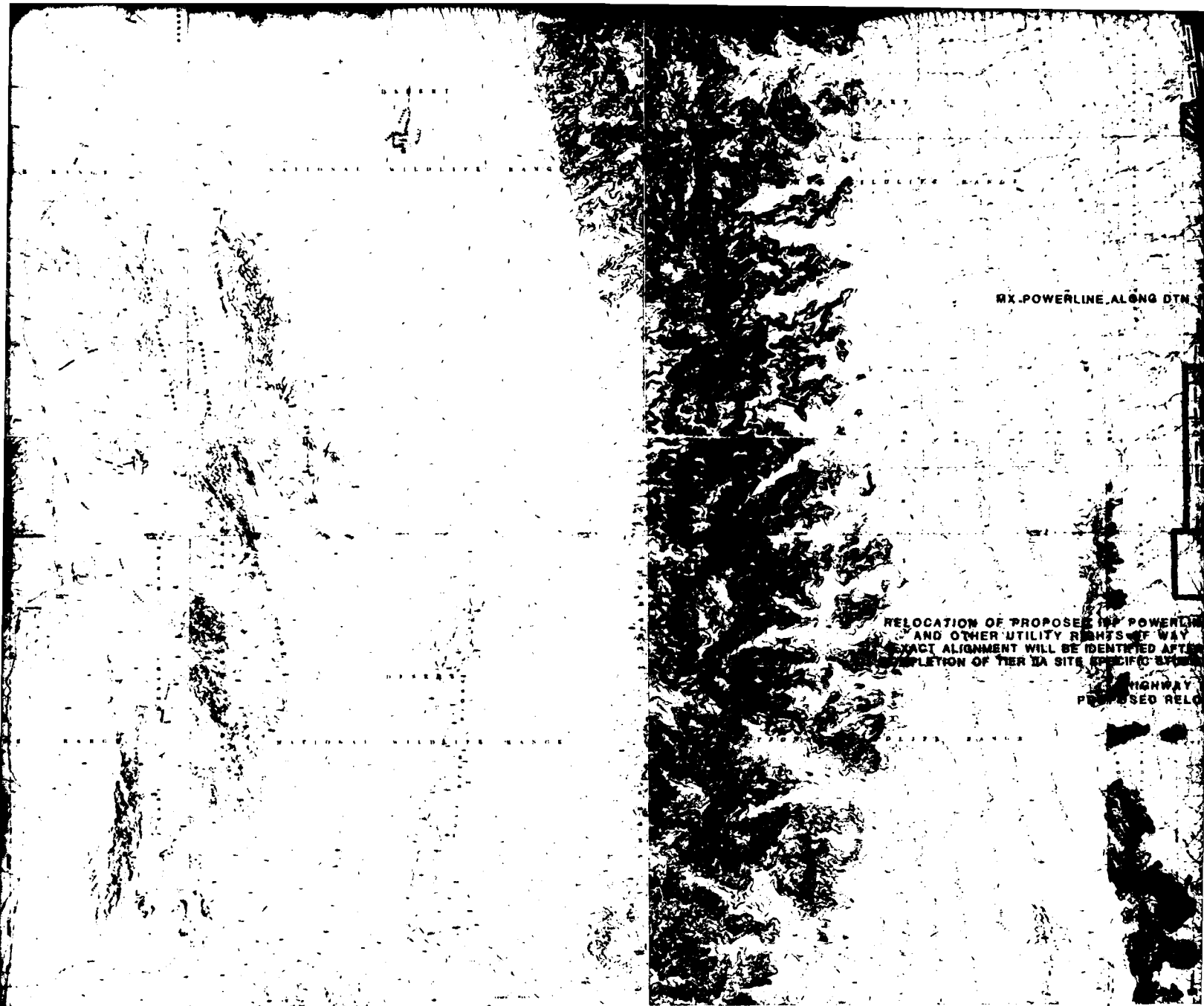


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



115°15'00"W
R60E

R61E

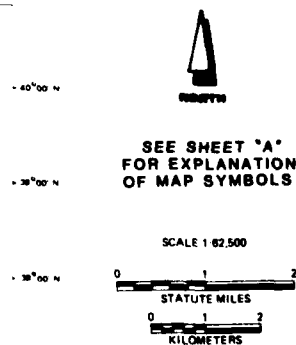
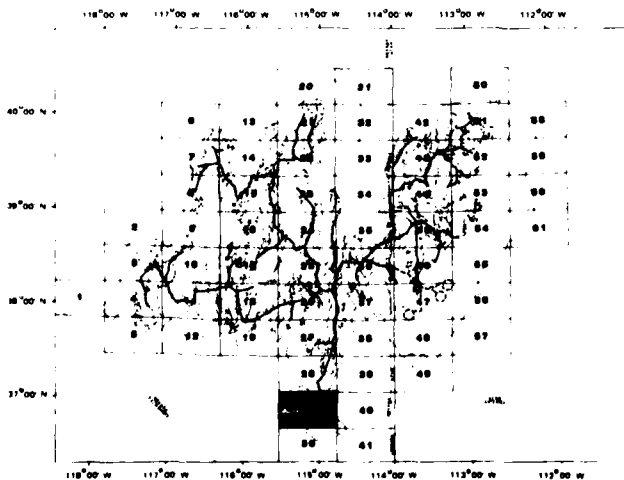
SEE DRAWING #30

R62E

115°00'00"W

MAP SHEET LOCATION

SCALE USGS (1:24,000)
SCALE USGS (1:62,500)
SCALE USGS (1:250,000)
METRIC METHODS BY
ONLY FUGRO GEOMETRICS



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/08	10/08/08
REVISION	DATE	

115°30'00"W

R58E

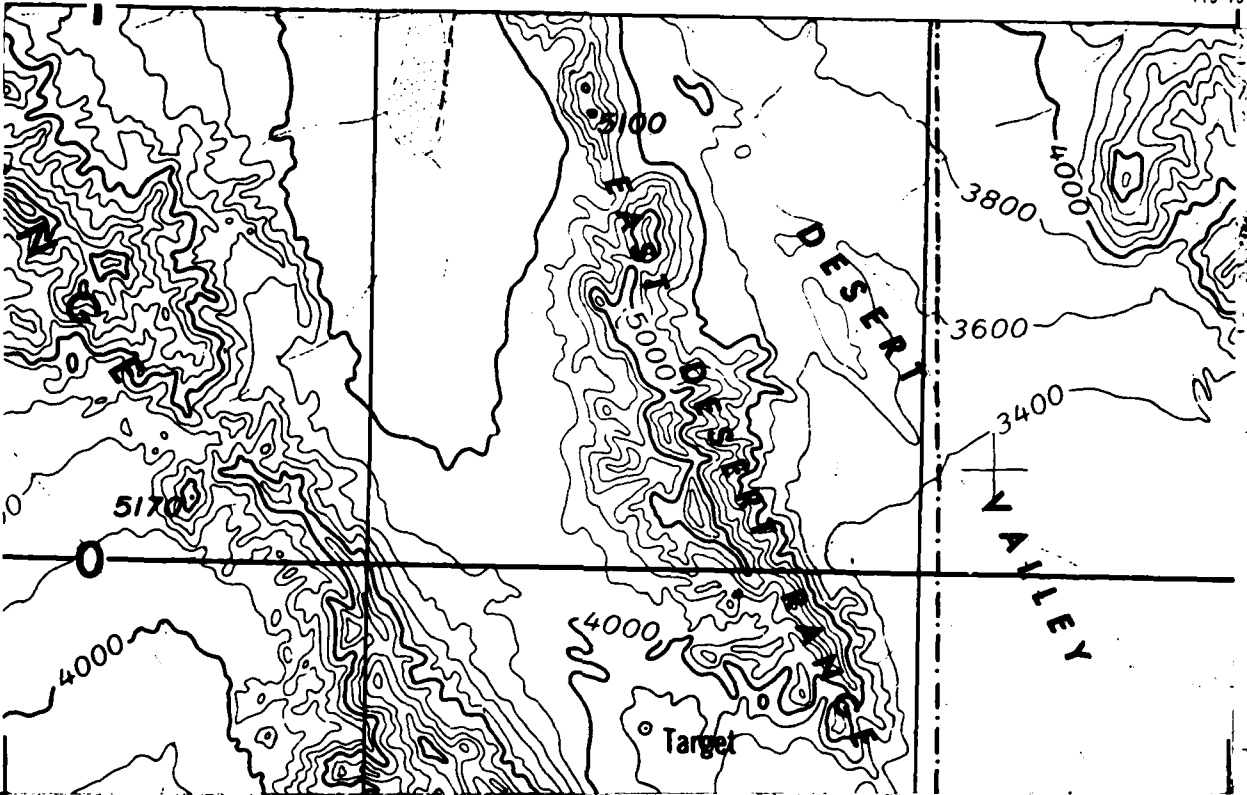
R59E

R60E

37°07'30"N

115°15'00"W

T10S

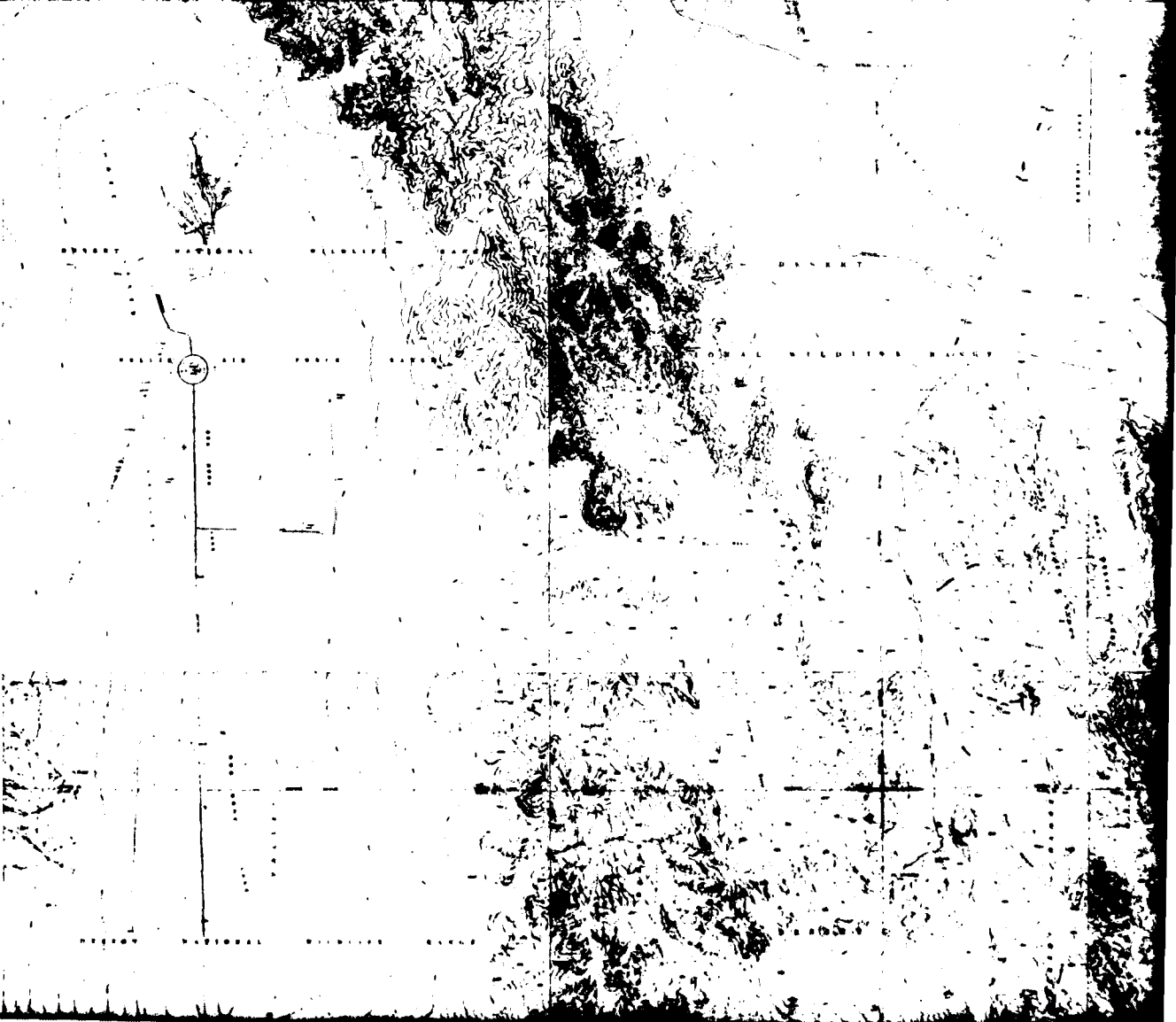


37°07'00"N

T11S

NONE

T12S



R60E

115°15'00"W

R61E

SEE DRAWING #28

R62E

115°00'00"W

DESIGNATED TRANSPORTATION NETWORK (DTN)

EXISTING HIGHWAY

MX POWERLINE

MX-POWERLINE ALONG DTN

MAIN
OPERATING
DESIGN
ASSEMBLY

RELOCATION OF PROPOSED
IPP POWERLINE
AND OTHER UTILITY
RIGHTS OF WAY
(EXACT ALIGNMENT TO BE IDENTIFIED
AFTER COMPLETION OF THE
SITE SPECIFIC STUDY)

HIGHWAY 93
PROPOSED RELOCATION

115°00'00"W

R63E

R64E

114°45'00"W

37°07'30"N

FORK (DTN)

EXISTING HIGHWAY 93

MX POWERLINE ALONG DTN

OPERATIONAL BASE
TEST SITE/
DESIGNATED
TRAINING AREA

T10S

37°00'00"N

T11S

SEE DRAWING
#40

POWERLINE ALONG DTN

BORROW

T12S

TEMPORARY CONSTRUCTION ROAD

MAIN
OPERATING BASE/
DESIGNATED
ASSEMBLY AREA

LOCATION OF PROPOSED
POWERLINE
AND OTHER UTILITY
RIGHTS-OF-WAY
SHOWN FOR IDENTIFICATION
ONLY (NOT TO BE IDENTIFIED
UNTIL COMPLETION OF TIER 2A
OR SPECIFIC STUDIES)

TEMPORARY CONSTRUCTION ROAD
TO HIGHWAY 7

HIGHWAY 93

BORROW

NONE

T12S

T13S

36°45'00"N

115°30'00"W

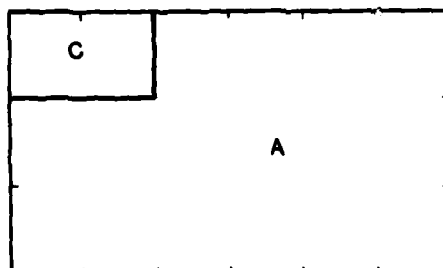
R58E

R59E

115°15'00"W

R60E

BASE MAP SOURCE INSET

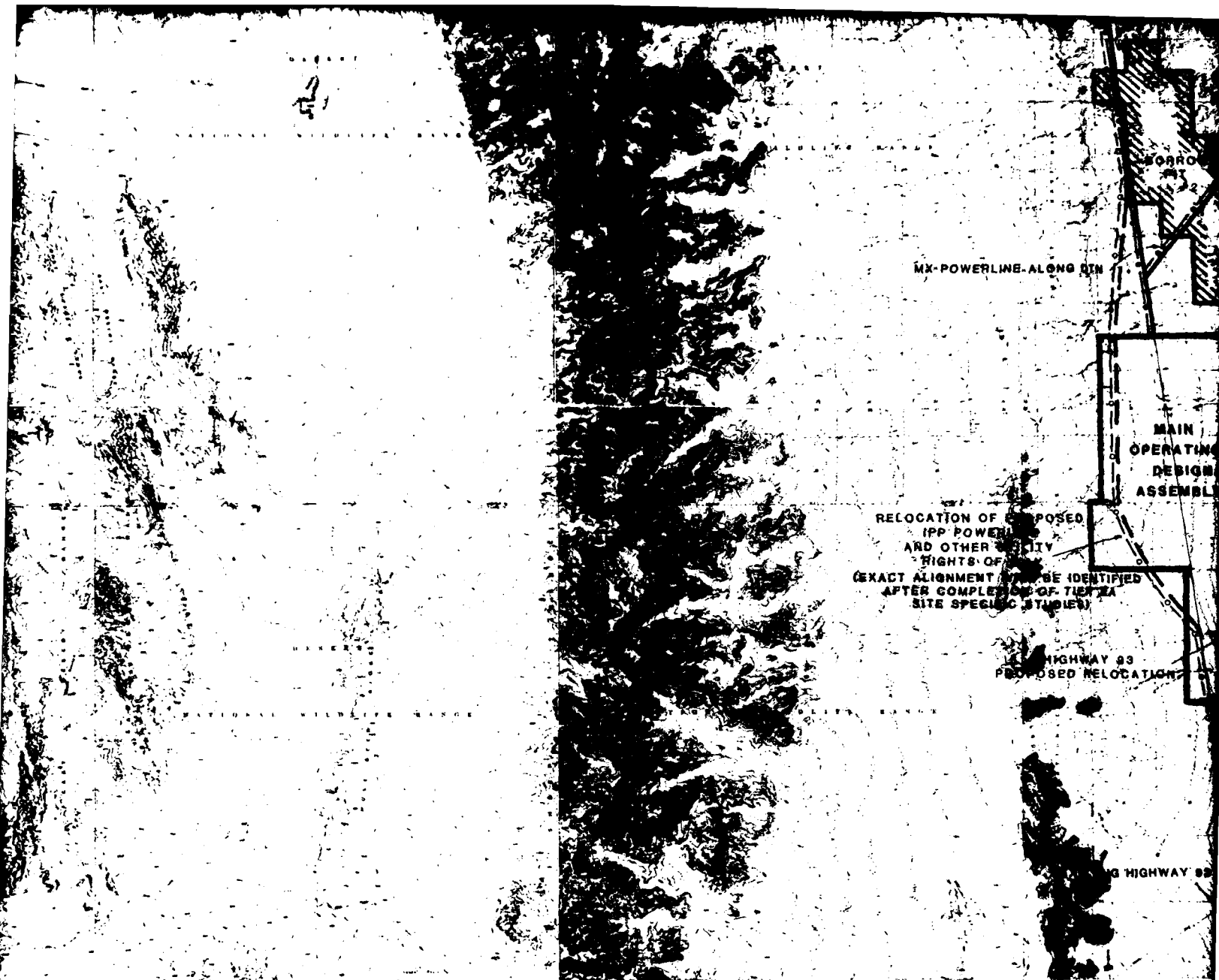


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



115°15'00"W
R60E

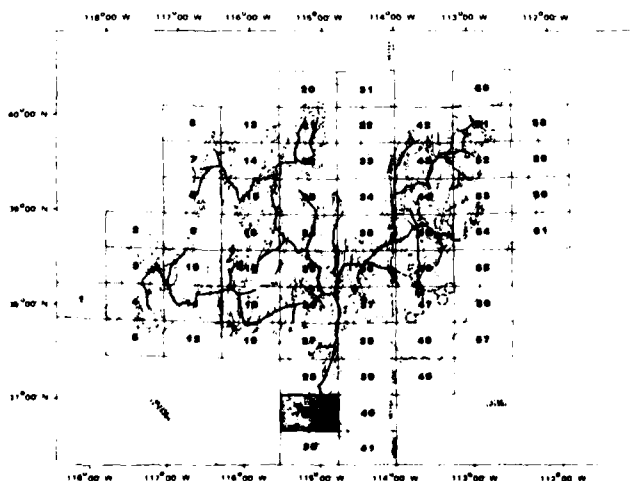
R61E

SEE DRAWING #30

R62E

115°00'00"W

MAP SHEET LOCATION



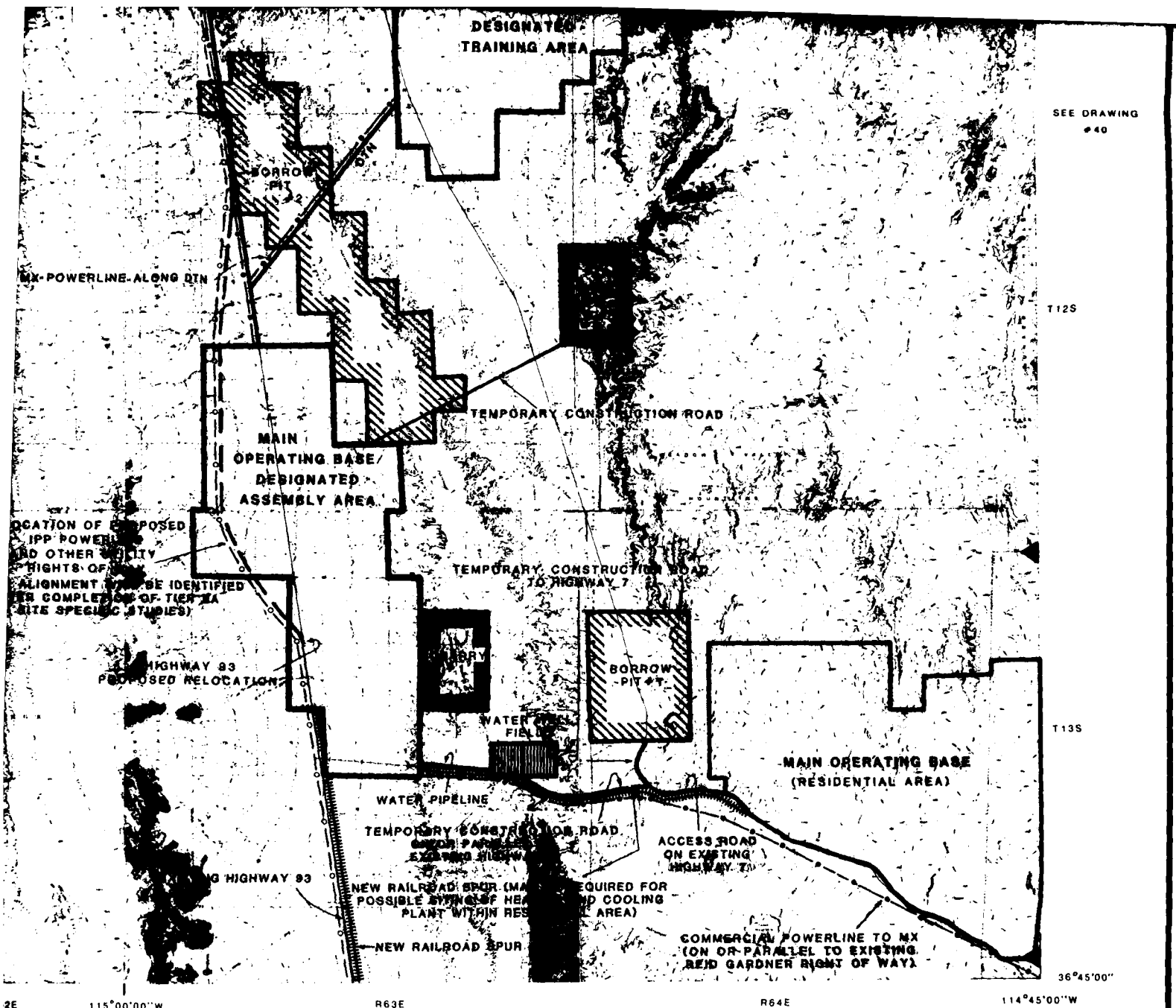
SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:62,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/01	REVISED NOTES
REVISION	DATE	DESCRIP



PROJECT MAP SHEET

STATE: NEVADA	RAILROADS: NONE
COUNTY: LINCOLN, CLARK	STATE ROADS: HWY 7
LOCAL COMMUNITY: NONE	FEDERAL ROADS: HWY 93

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE	<p>OPTION D-COVOTE SPRING</p> <p>MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH</p>	
DRAWN BY: <i>J. B. Snyder</i>	9/18/81		
CHECKED BY: <i>A. B. Snyder</i>	9/18/81		
GEOTECHNICAL: <i>John M. Snyder</i>	9/18/81		
SITING: <i>J. B. Snyder</i>	9/18/81		
ENVIRONMENTAL			
SYSTEMS ENGINEER		APPROVED BY:	DATE
CORPS OF ENGINEERS			
APPROVED BY:		AIR FORCE REGIONAL CIVIL ENGINEER - MX	
USAF BALLISTIC MISSILE OFFICE		DRAWING NUMBER 29	
SHEET		OF	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	9/18/81	REVISION	<i>J. B. Snyder</i>	9/18/81
REVISIONS				

114 00'00"W
38 15'00"N

R19W

R18W

R17W
113 45'00"

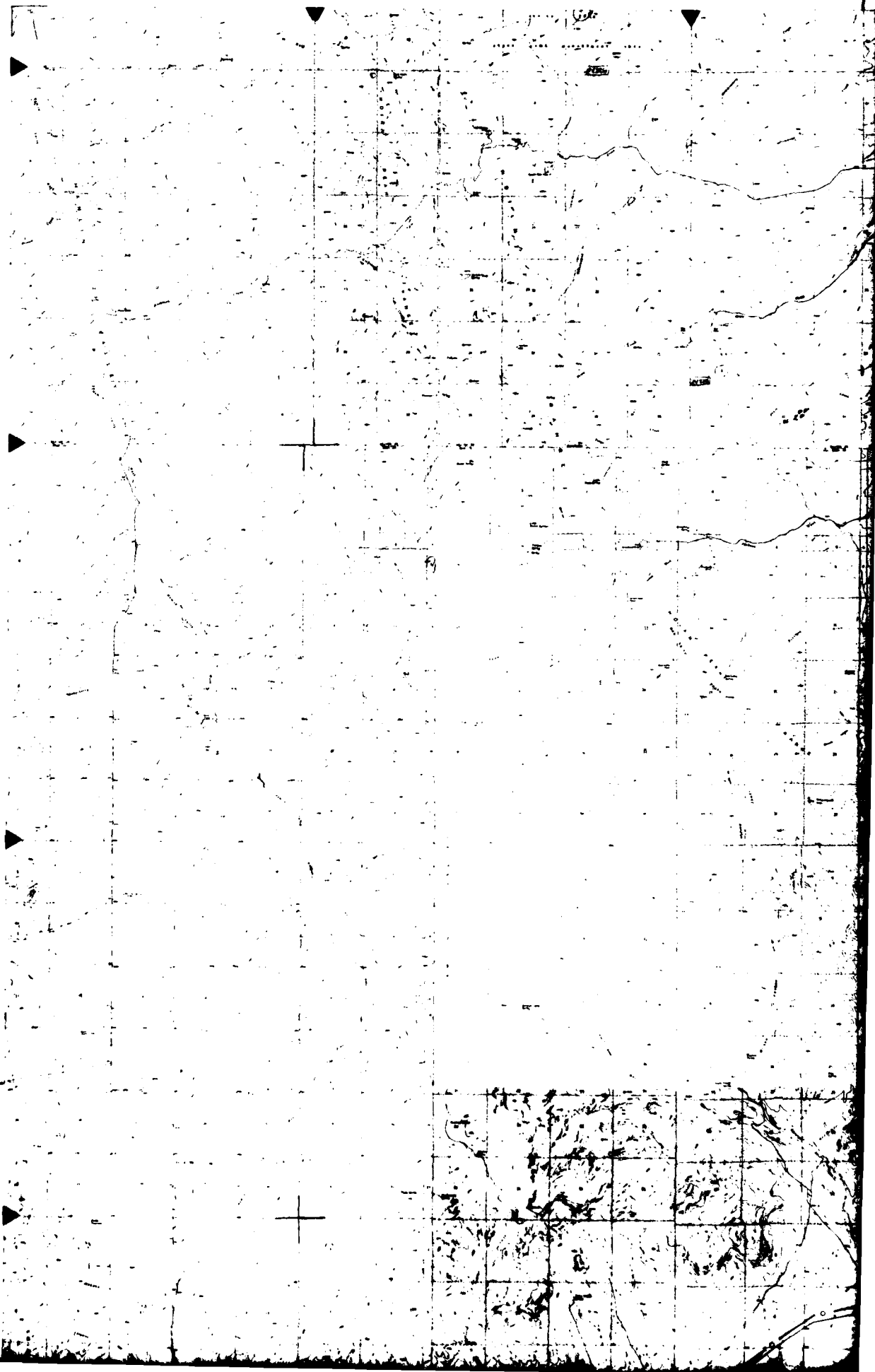
T30S

T31S

SEE DRAWING
#37

T32S

38°00'00"N



R17W
13 45'00"W

R16W

SEE DRAWING #46

R15W

113 30'00"W

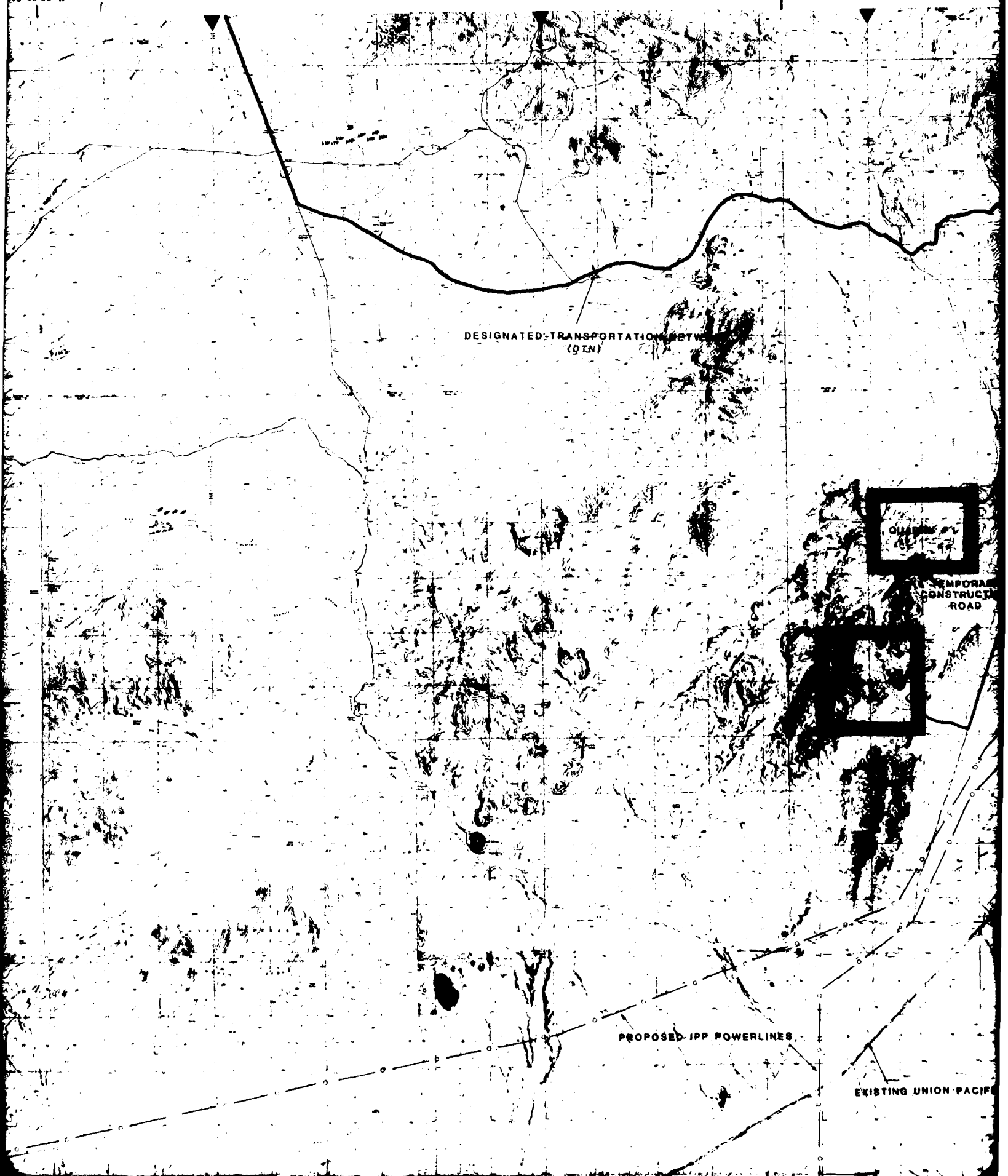
DESIGNATED TRANSPORTATION ROUTE
(QTN)

OLIVER

TEMPORARY
CONSTRUCTION
ROAD

PROPOSED IPP POWERLINES

EXISTING UNION PACIFIC



15W 113 30'00"W R14W R13W 113 15'00"W

38°15'00"N

MX POWERLINE ALONG DTN

DTN

TEMPORARY
CONSTRUCTION ROAD

MAIN OPERATING BASE
DESIGNATED ASSEMBLY AREA

T305

ACCESS ROAD

TEMPORARY
CONSTRUCTION ROAD

RELOCATION OF PROPOSED IPP
POWERLINES (EXACT ALIGNMENT WILL
BE IDENTIFIED AFTER COMPLETION OF
TIER 3A SITE SPECIFIC STUDIES)

DTN

T315

MX POWERLINE ALONG DTN

SEE DRAWING
56

T325

38°00'00"N

POWERLINES

EXISTING UNION PACIFIC RAILROAD

T31S

SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°00'30"N

114°00'00"W

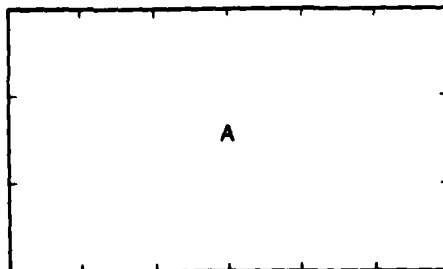
R19W

R18W

113°45'00"W
R17W

PROPOSED IPP POWERLINE

BASE MAP SOURCE INSET



A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

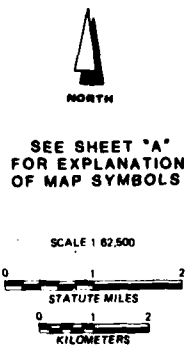
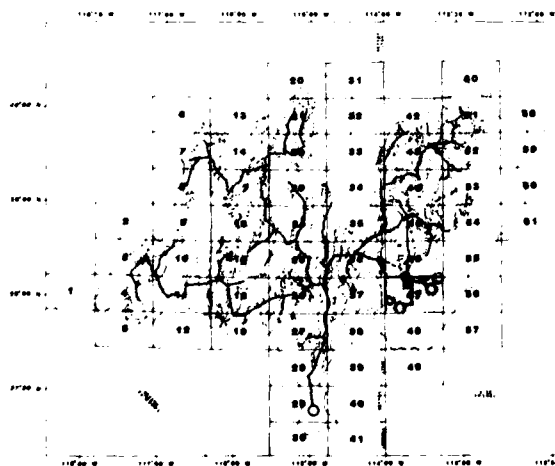
C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



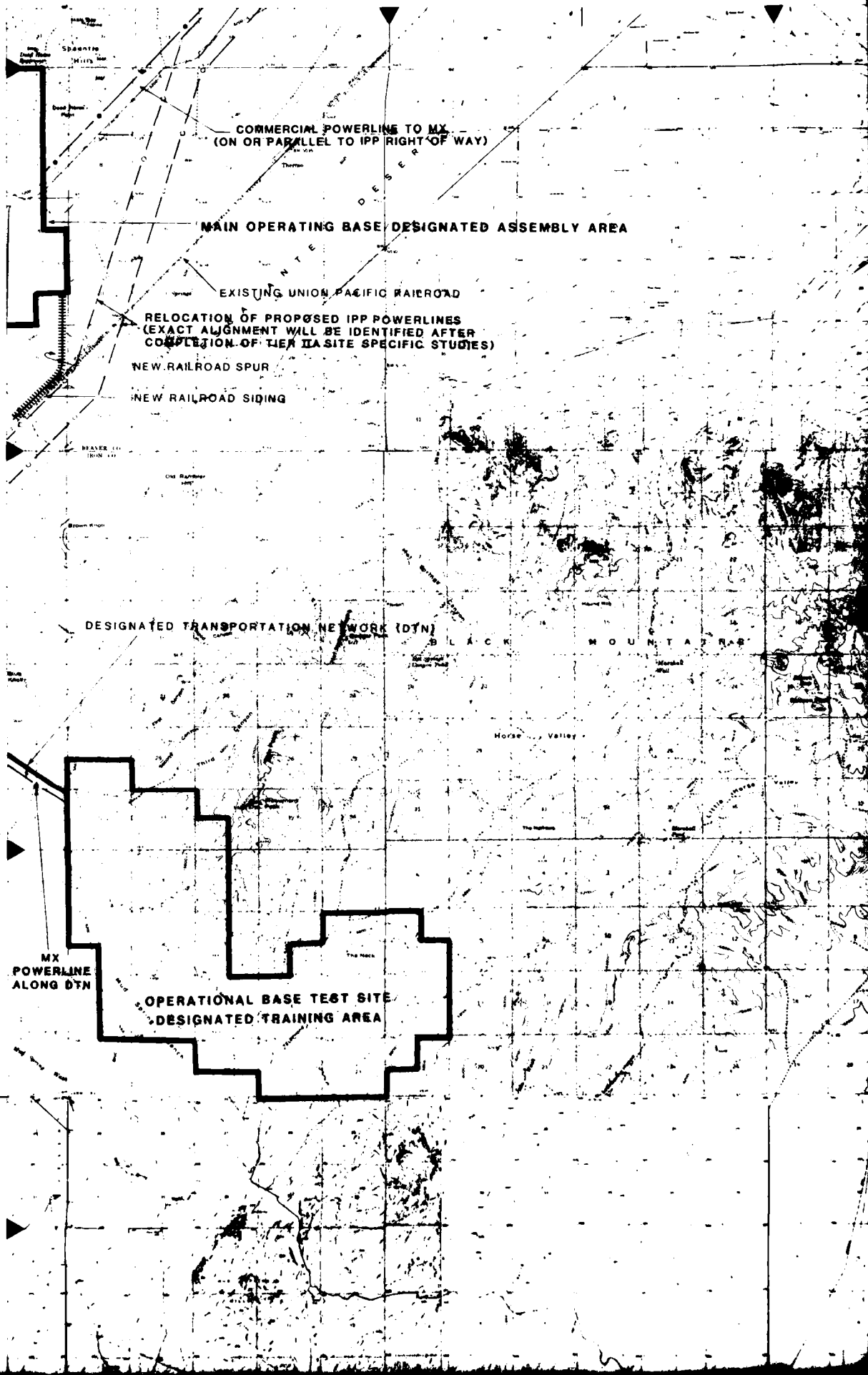
MAP SHEET LOCATION

SEE DRAWING #4B



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/01	REVISED MAP, RELOCATED BYN AND POWERLINE
REVISION	DATE	DESCRIPTION
REVISIONS		



SEE DRAWING #47

00 00 W

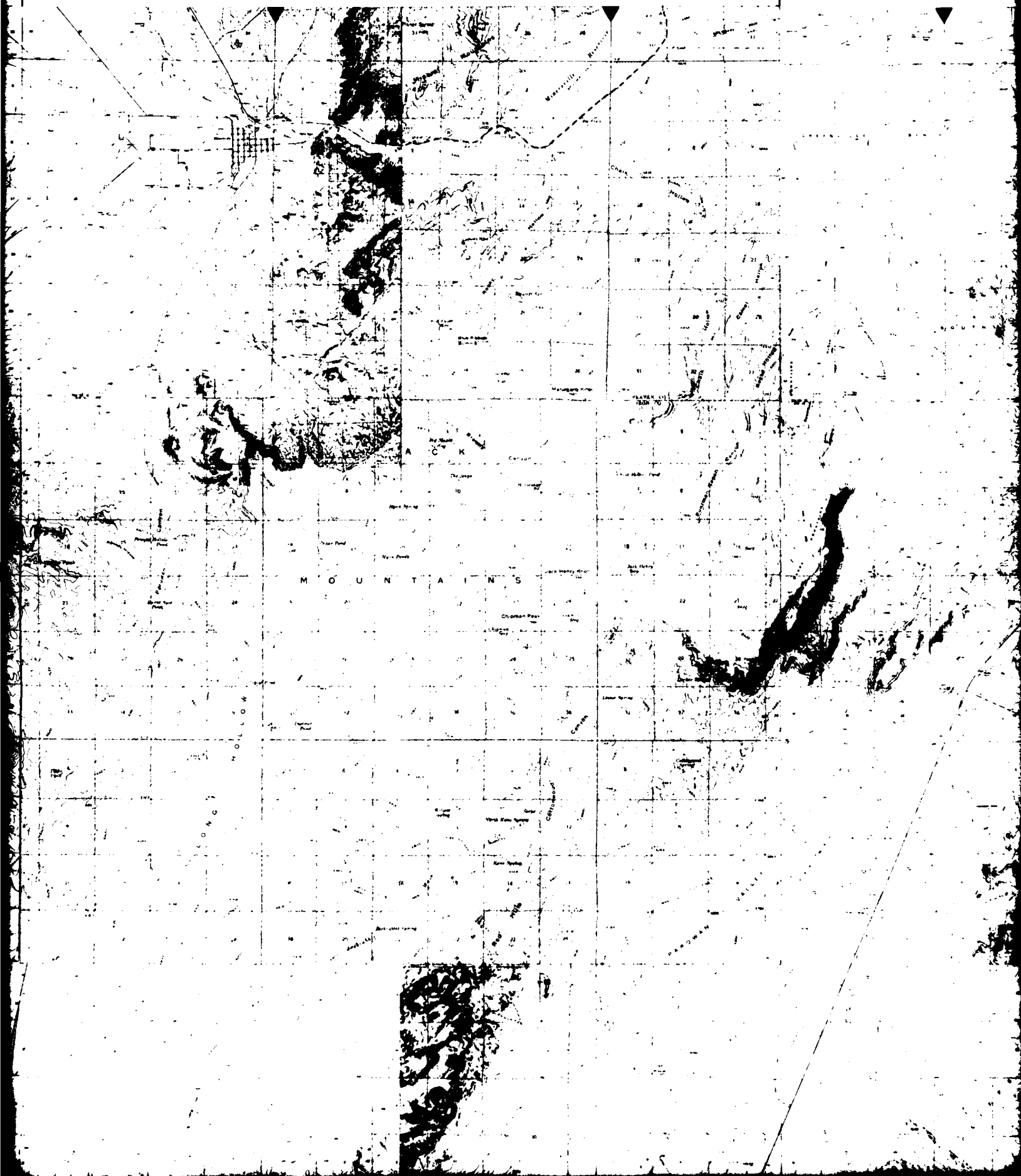
R10W

R9W

SEE DRAWING #55

R8W

112° 45' 00" W



R8W

112°45'00"W

R7W

R6W

112°30'00"W

38°15'00"N

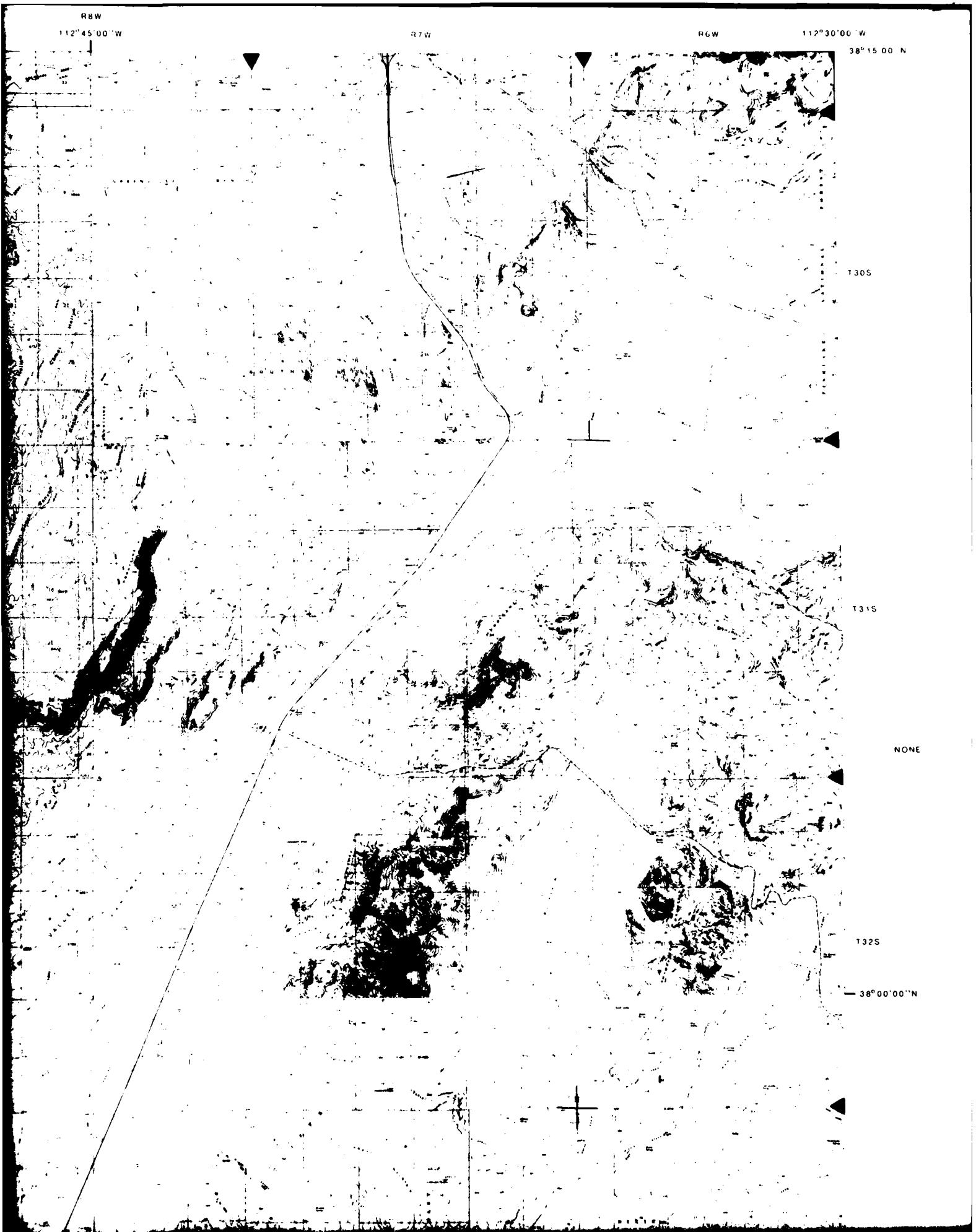
T30S

T31S

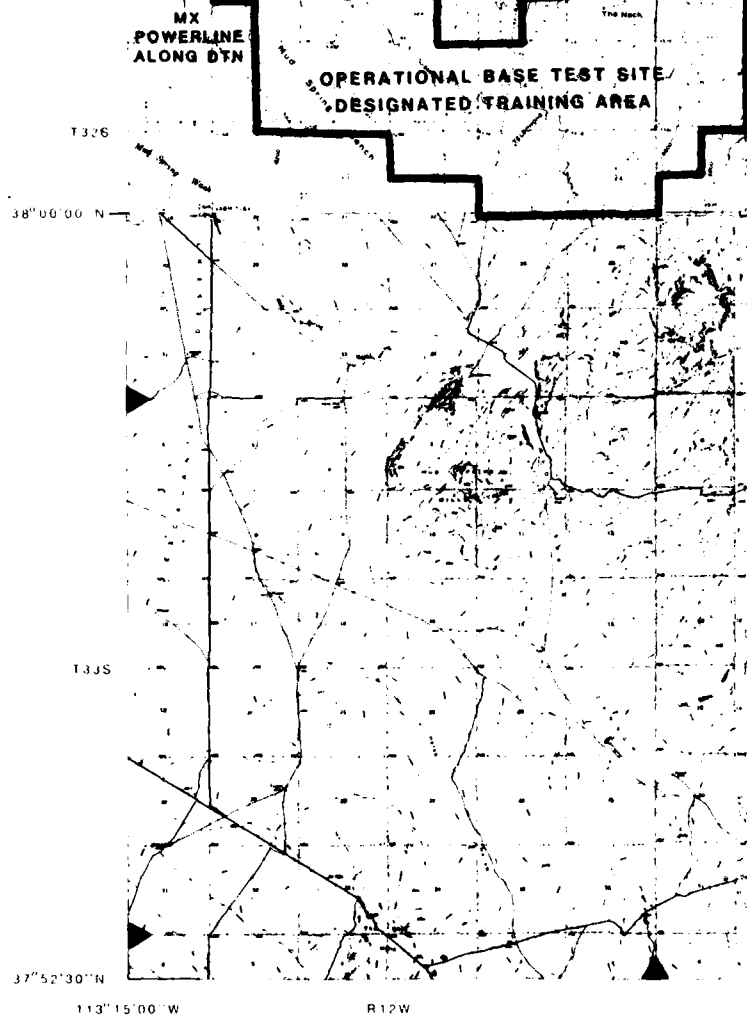
NONE

T32S

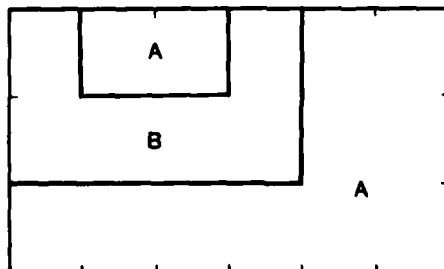
38°00'00"N



SEE DRAWING
#47



BASE MAP SOURCE INSET



A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



113°00'00"W

R10W

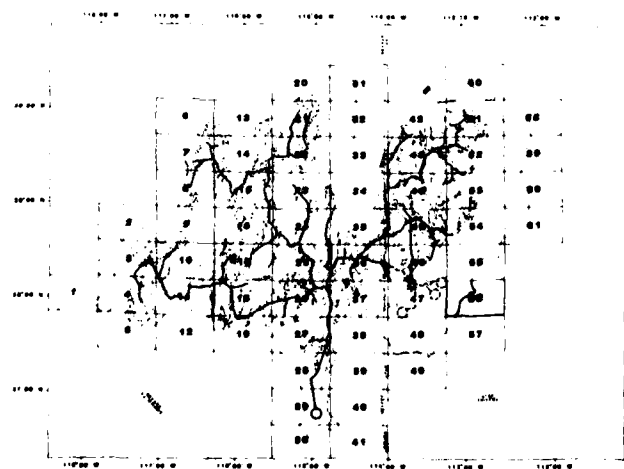
R9W

112°45'00"W

R8W

MAP SHEET LOCATION

SEE DRAWING #57



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

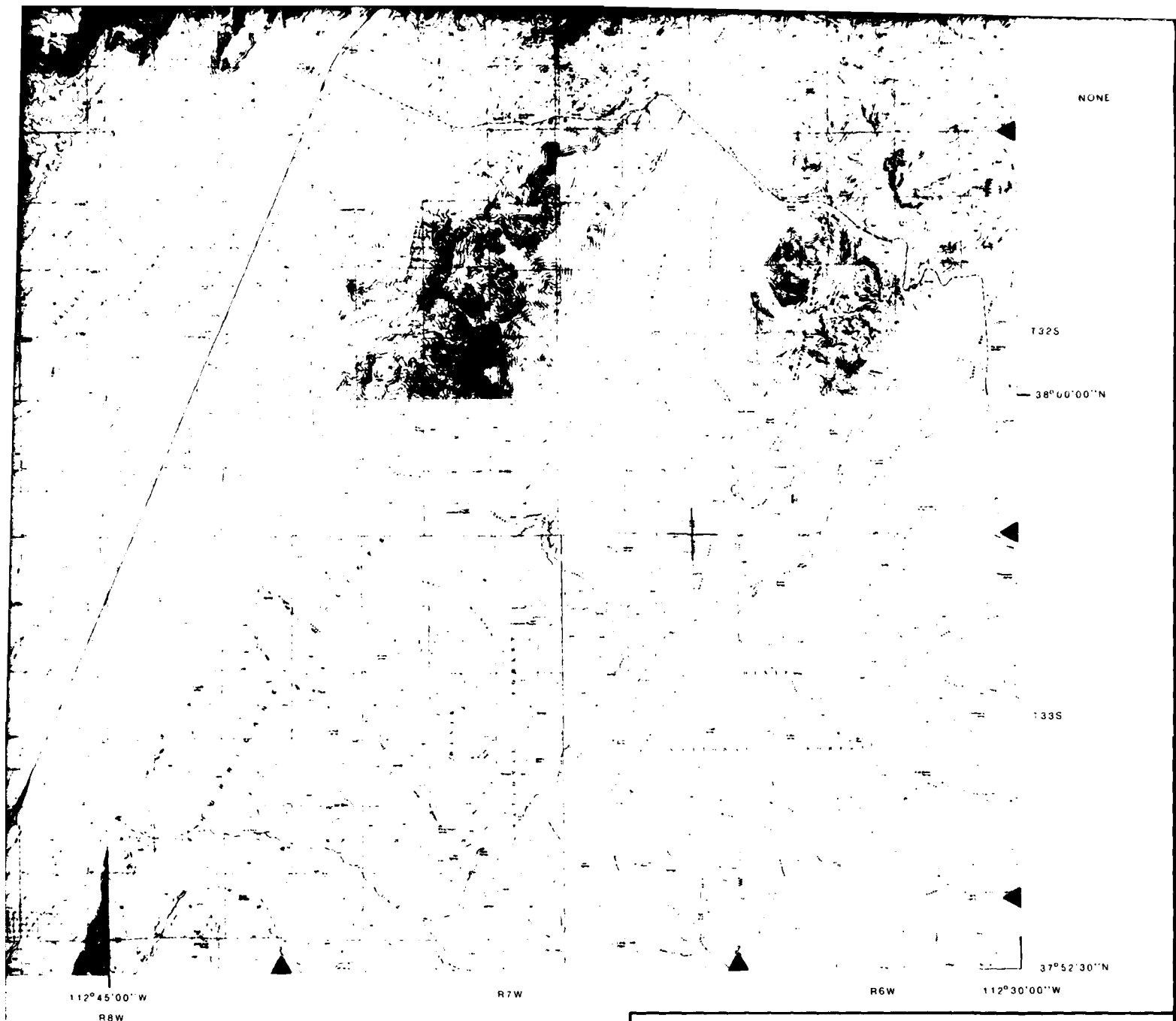
SCALE 1:62,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	1970	REVISED MAP, 1:62,500
REVISION	DATE	DESCR

RE



PROJECT MAP SHEET	
STATE: UTAH	RAILROADS: UNION PACIFIC
COUNTY: BEAVER, IRON	STATE ROADS: HWY 10, 20, 130
LOCAL COMMUNITY: MINERSVILLE	FEDERAL ROADS: INTERSTATE 15
PARAGONAH	

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY <i>P. B. Smith</i>	1/11/81
CHECKED BY <i>A. G. Smith</i>	
GEOTECHNICAL <i>Stacy Maden</i>	2/11/81
SYSTEMS <i>P. B. Smith</i>	7/1/81
ENVIRONMENTAL	

OPTION E-MILFORD

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA UTAH

SYSTEMS ENGINEER	APPROVED BY	DATE
CORPS OF ENGINEERS	AIR FORCE REGIONAL CIVIL ENGINEER-MX	
APPROVED BY	DRAWING NUMBER 56	REV
USAF BALLISTIC MISSILE OFFICE	SHEET _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	1/11/81	REVISED SYSTEM, RELEASED FOR RELEASED AREA, 15	<i>P. B. Smith</i>	1/11/81

REVISIONS

114 00'00"W

R19W

R18W

R17
113 45"

38 15'00"N

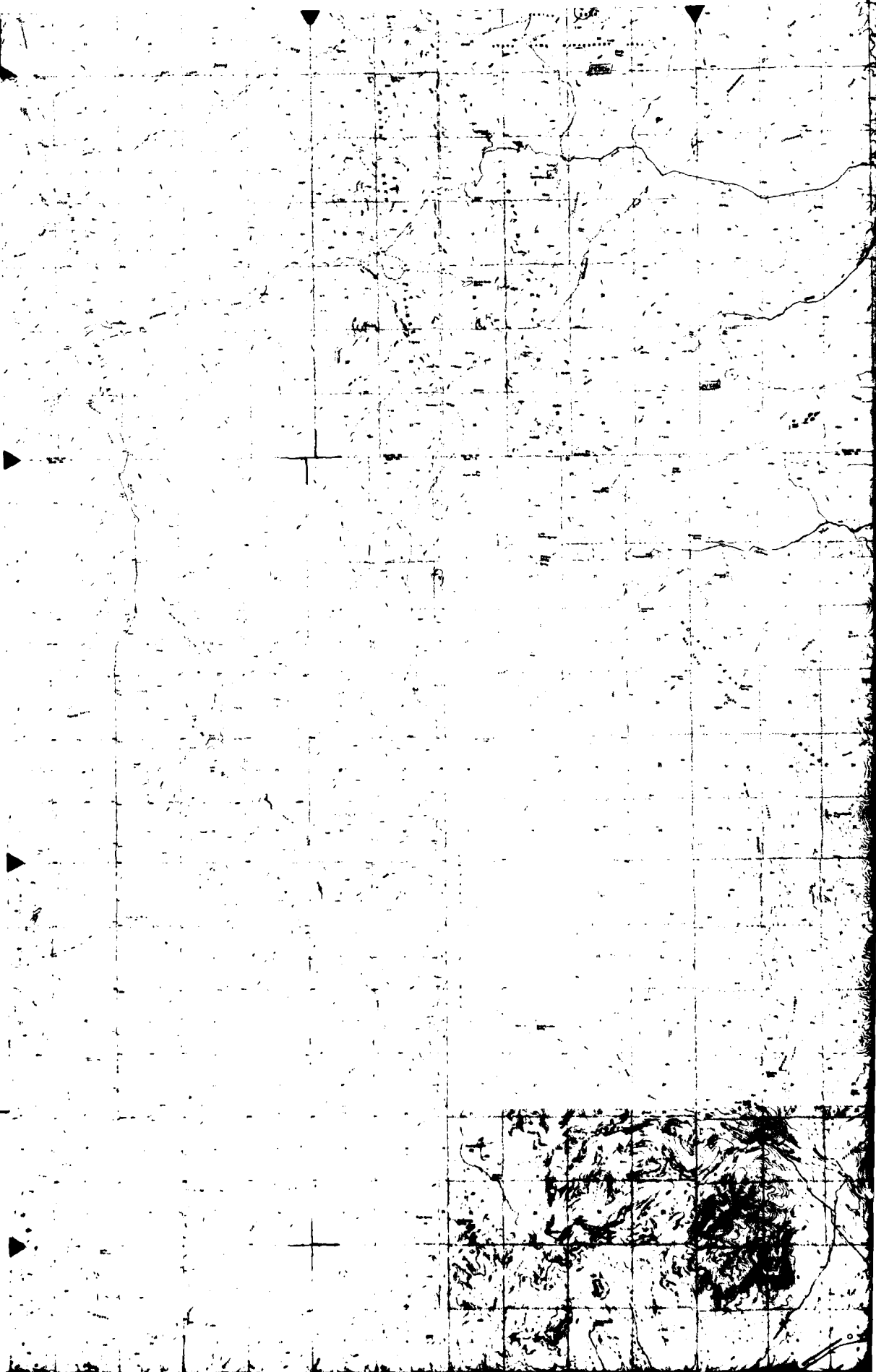
T30S

T31S

SEE DRAWING
#37

T32S

38 00'00"N



R17W
113 45'00" W

R16W

SEE DRAWING #46

R15W

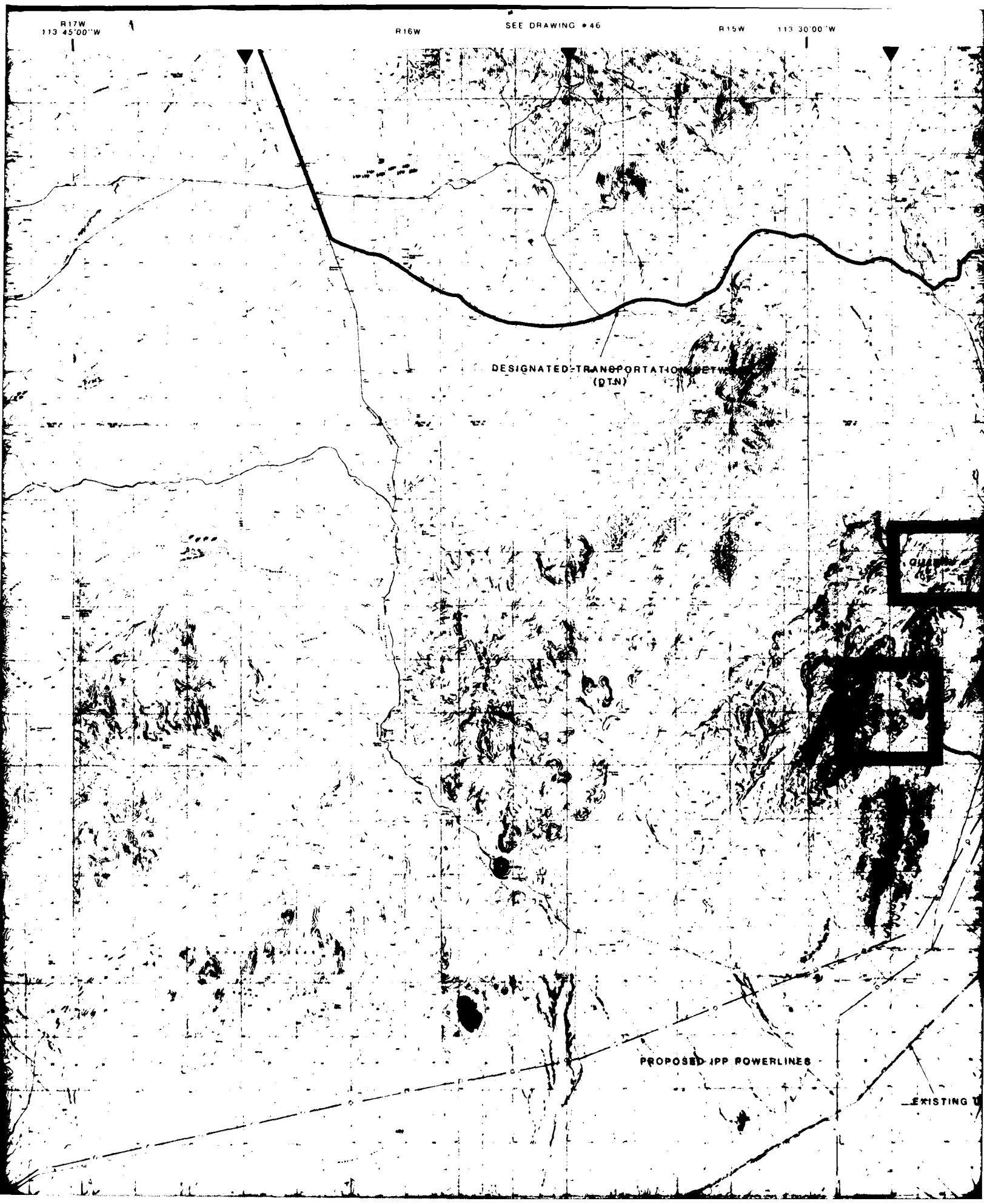
113 30'00" W

DESIGNATED TRANSPORTATION SETBACK
(D.T.N.)

CHADWICK

PROPOSED IPP POWERLINES

EXISTING



8W

113 30'00"W

R14W

R13W

113 15'00"W

38 15'00"N

MX POWERLINE ALONG DTN

TEMPORARY
CONSTRUCTION ROADMAIN OPERATING BASE
DESIGNATED ASSEMBLY AREA

1305

MX POWERLINE
ALONG DTN
ACCESS
ROAD

DTN

TEMPORARY
CONSTRUCTION ROADRELOCATION OF PROPOSED IPP POWERLINE
(EXACT ALIGNMENT WILL BE IDENTIFIED AFTER
COMPLETION OF TIER IIA SITE SPECIFIC STUDY)

1315

SEE DRAWING
54

1325

38°00'00" N

POWERLINES

EXISTING UNION PACIFIC RAILROAD

SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°00'30"N

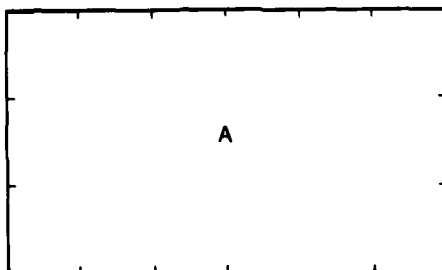
11°00'00"W

R19W

R18W

PROPOSED IPP PDW

BASE MAP SOURCE INSET

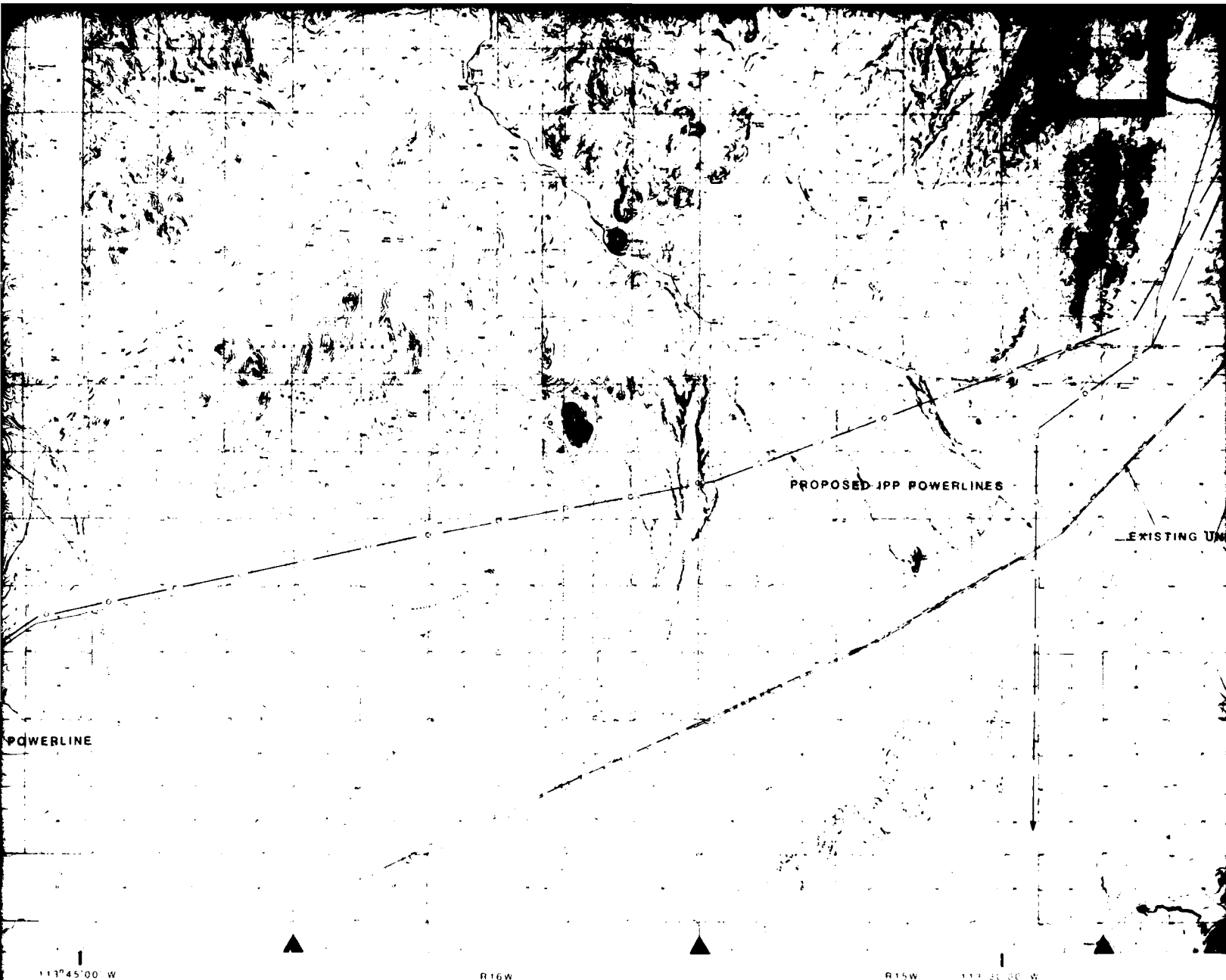


A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

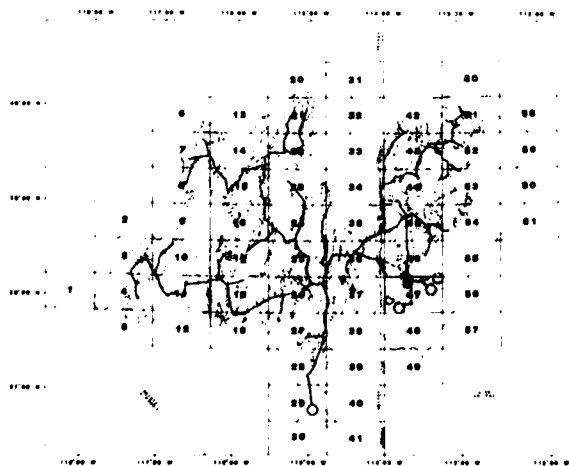
C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



MAP SHEET LOCATION

SEE DRAWING # 48



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:82,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	00/01	REVISED MAP, RELEASED GPO AND POWERLINE
REVISION	DATE	DESCRIPTION

REVISION

113° 15' 00" W
38° 15' 00" N

R12W

R11W

113° 0'

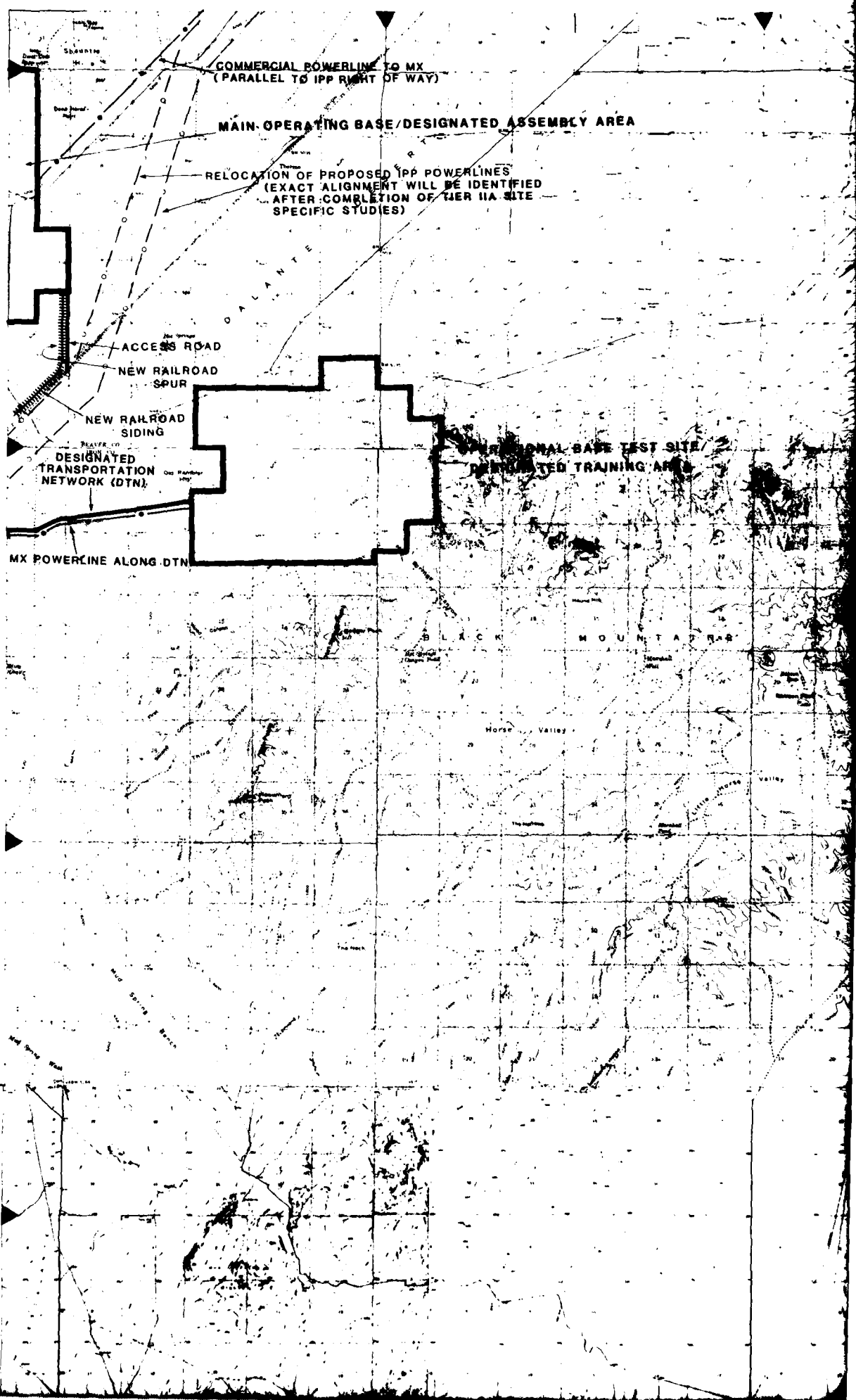
T30S

T31S

T32S

SEE DRAWING
#47

38° 00' 00" N



R8W

112°45'00"W

R7W

R6W

112°30'00"W

38°15'00"N

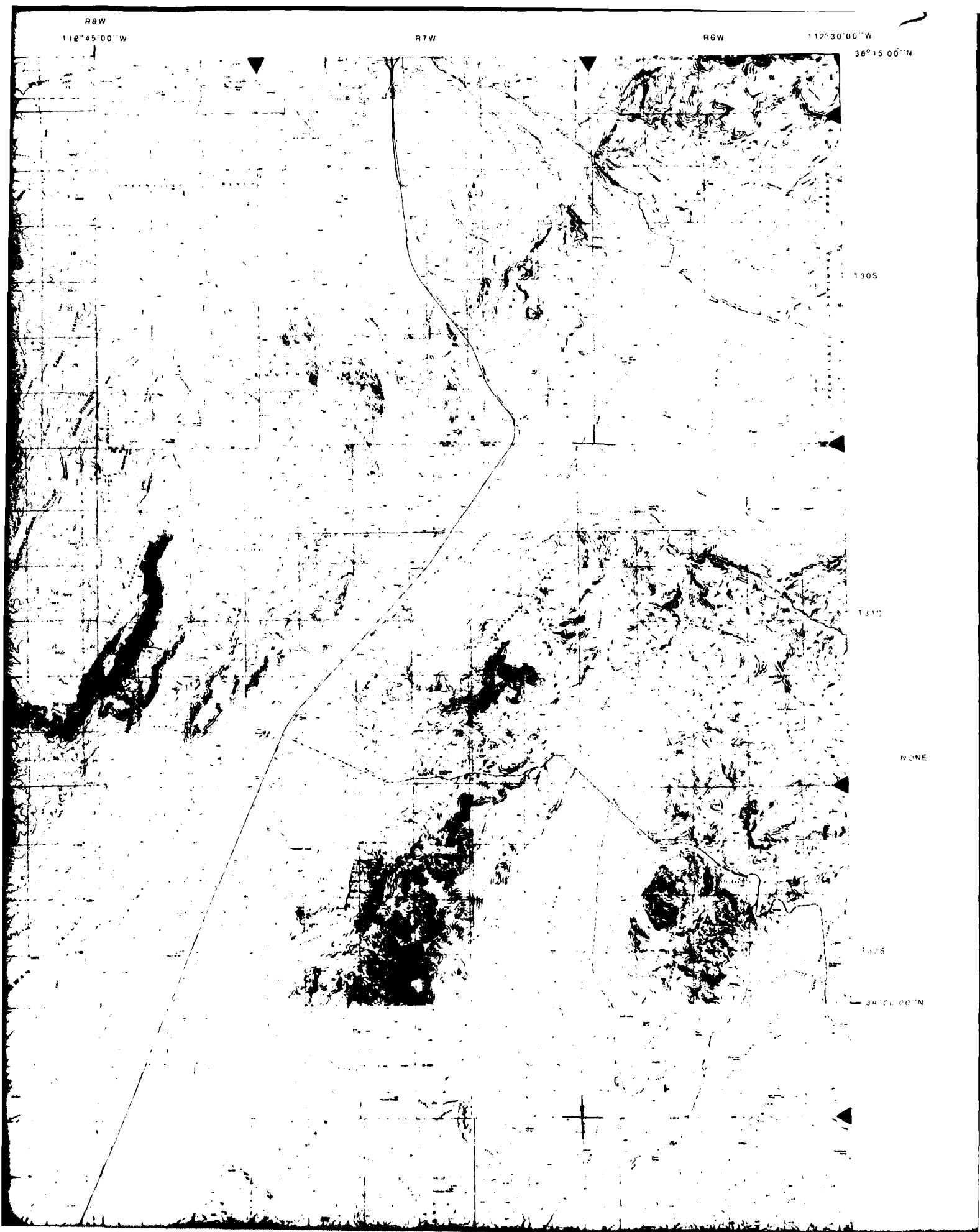
130S

131S

NONE

132S

38°00'00"N



SEE DRAWING
47

T 326

38° 00' 00" N

T 335

37° 52' 30" N

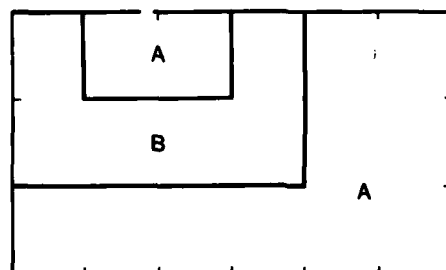
113° 15' 00" W

R 12 W

R 11 W

113

BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



R10W

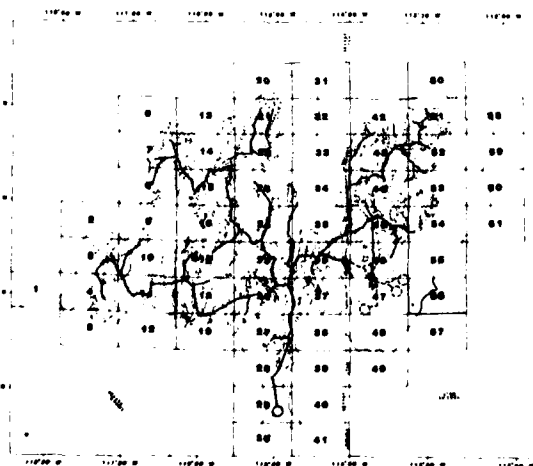
R9W

11°45'00"W

R8W

MAP SHEET LOCATION

SEE DRAWING # 57



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:62,500

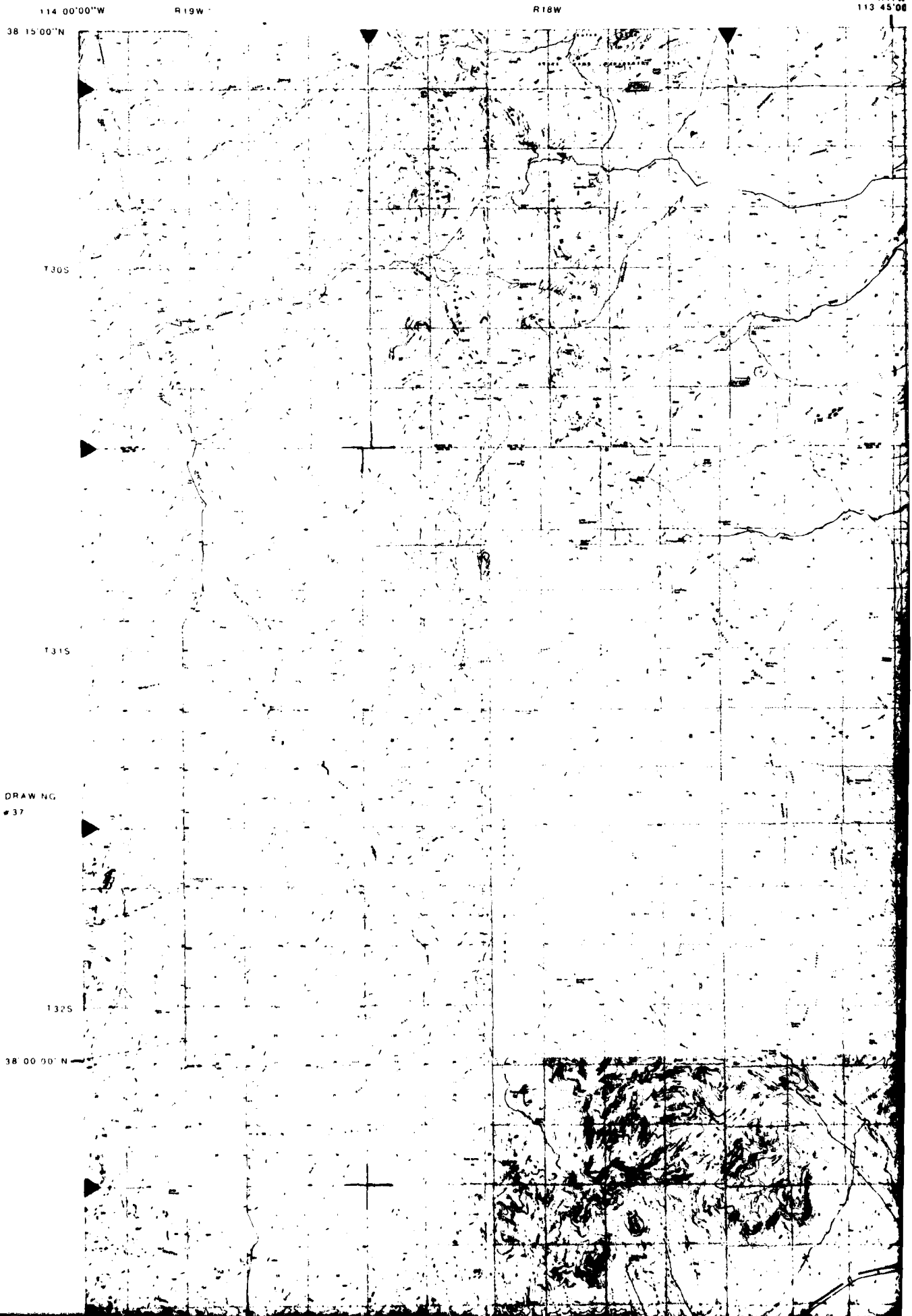


NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	REVISION	REVISED NOTES, RELOCATED DTM AND PHOTOGRAPHIC, ENLARGED COPY
REVISION	DATE	DESCRIPTION
REVISIONS		



PROJECT MAP SHEET			
STATE: UTAH		RAILROADS: UNION PACIFIC	
COUNTY: BEAVER, IRON		STATE ROADS: HWY 19, 20, 130	
LOCAL COMMUNITY: MINERSVILLE		FEDERAL ROADS: INTERSTATE 15	
PARAGONAH			
<p align="center">DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409</p>			
SIGNATURE		DATE	
DRAWN BY <i>J. Edwards</i>		<i>4/17/61</i>	
CHECKED BY <i>A. Sardis</i>		<i>4/17/61</i>	
GEOTECHNICAL <i>Stacy Rouse</i>		<i>4/17/61</i>	
SIGNING <i>F. E. Edwards</i>		<i>4/17/61</i>	
ENVIRONMENTAL			
SYSTEMS ENGINEER		APPROVED BY	
CORPS OF ENGINEERS		AIR FORCE REGIONAL CIVIL ENGINEER - MX	
APPROVED BY		DRAWING NUMBER 56	
USAF BALLISTIC MISSILE OFFICE		SHEET _____ OF _____	
		REV	



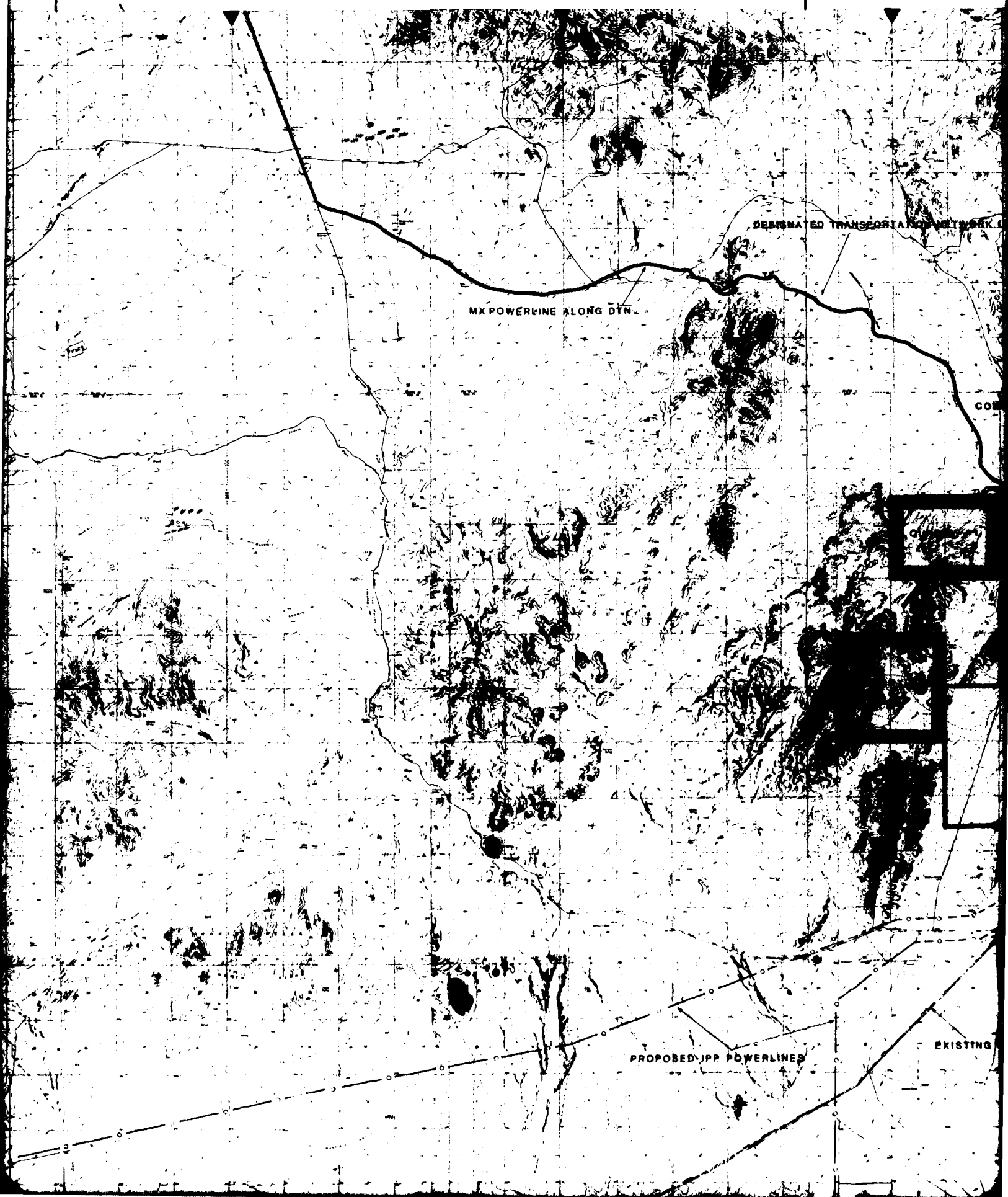
R17W
113 45'00"W

R16W

SEE DRAWING #46

R15W

113 30'00"W



15W

113 30'00"W

R14W

R13W

113 15'00"W

38 15'00"N

DESIGNATED TRANSPORTATION NETWORK (DTN)

COMMERCIAL TO POWERLINE TO MX
(PARALLEL TO EXISTING IPA
RIGHT OF WAY)

TEMPORARY
CONSTRUCTION ROAD

MAIN OPERATING BASE/
DESIGNATED ASSEMBLY AREA

T30S

T31S

SEE DRAWING
#56

MX POWERLINE ALONG DTN

DTN

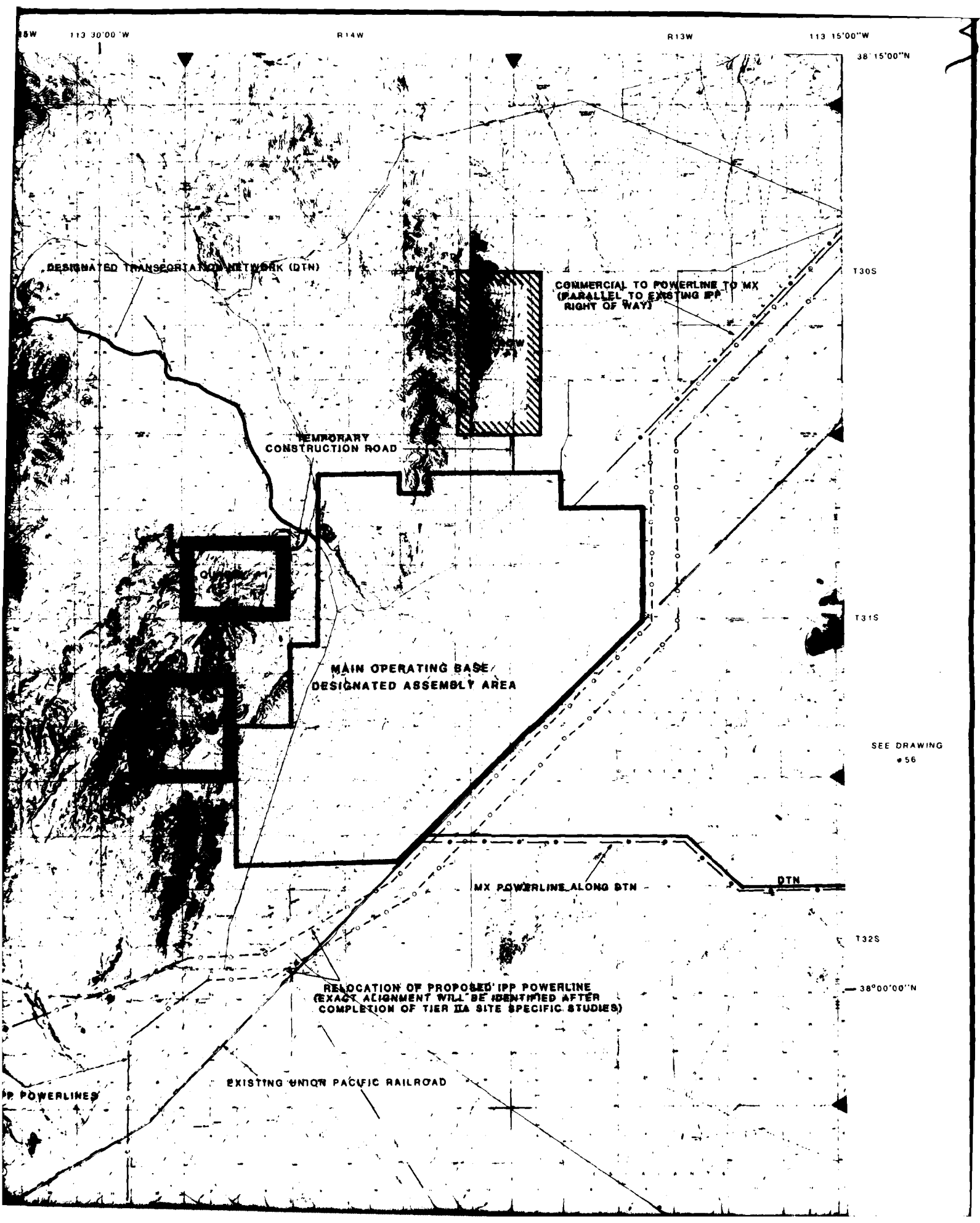
T32S

RELOCATION OF PROPOSED IPP POWERLINE
(EXACT ALIGNMENT WILL BE IDENTIFIED AFTER
COMPLETION OF TIER IIA SITE SPECIFIC STUDIES)

38°00'00"N

EXISTING UNION PACIFIC RAILROAD

IP POWERLINES



SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°52'30"N

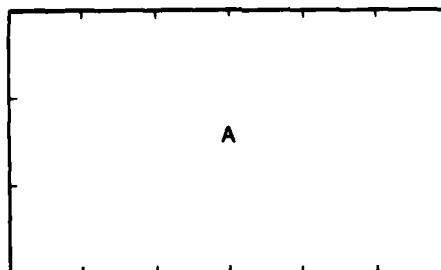
114°00'00"W

R19W

R18W

PROPOSED IPP

BASE MAP SOURCE INSET

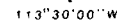


A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRI)
AT 1:62,500

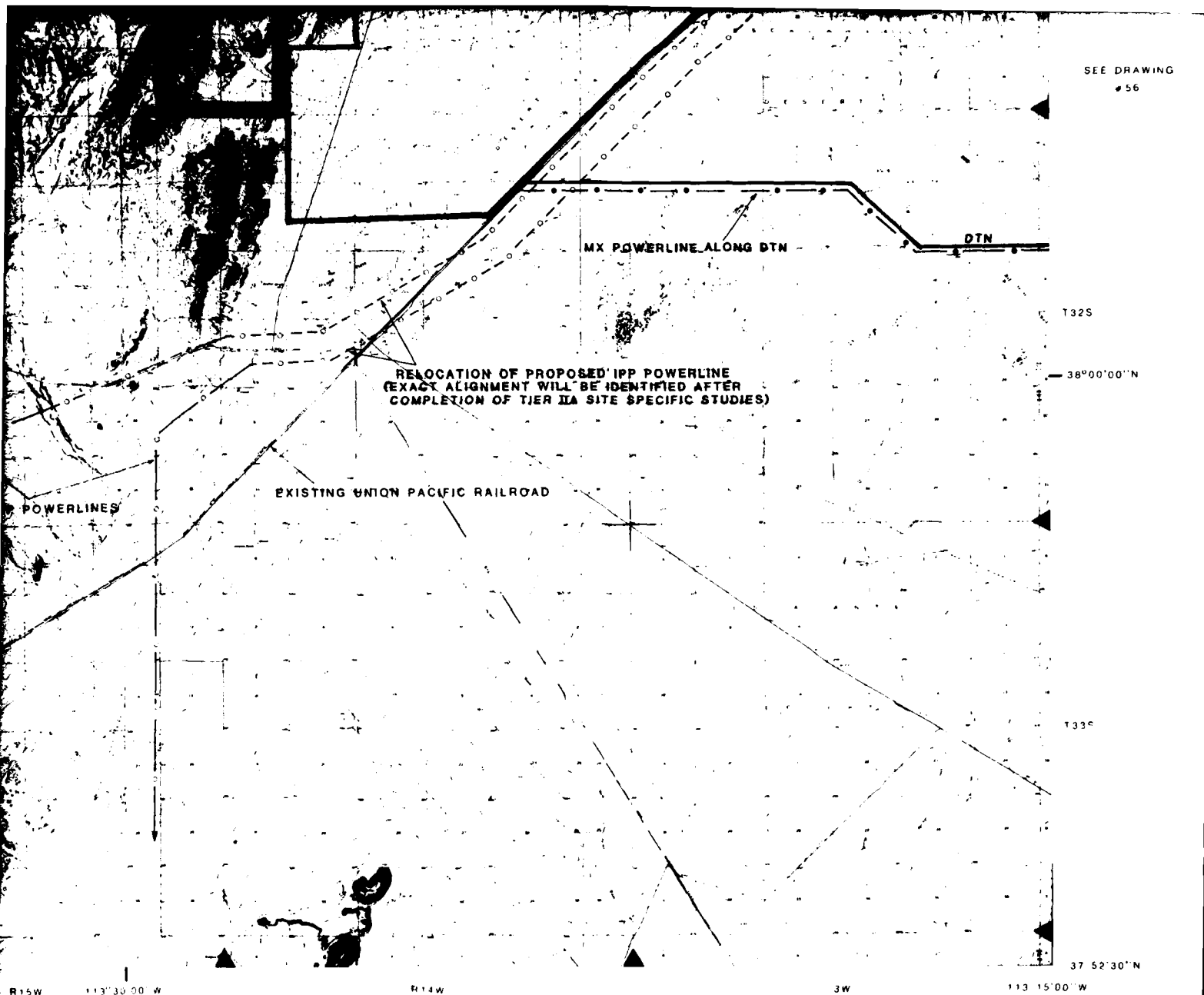


SEE DRAWING # 48



1	VERSION	REVISION HISTORY
REVISION	DATE	DESCRIPTION
REV		

SEE DRAWING
#56



PROJECT MAP SHEET

STATE: UTAH	RAILROADS: UNION PACIFIC
COUNTY: BEAVER, IRON	STATE ROADS: HWY 10
LOCAL COMMUNITY: LUND, BERYL	FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

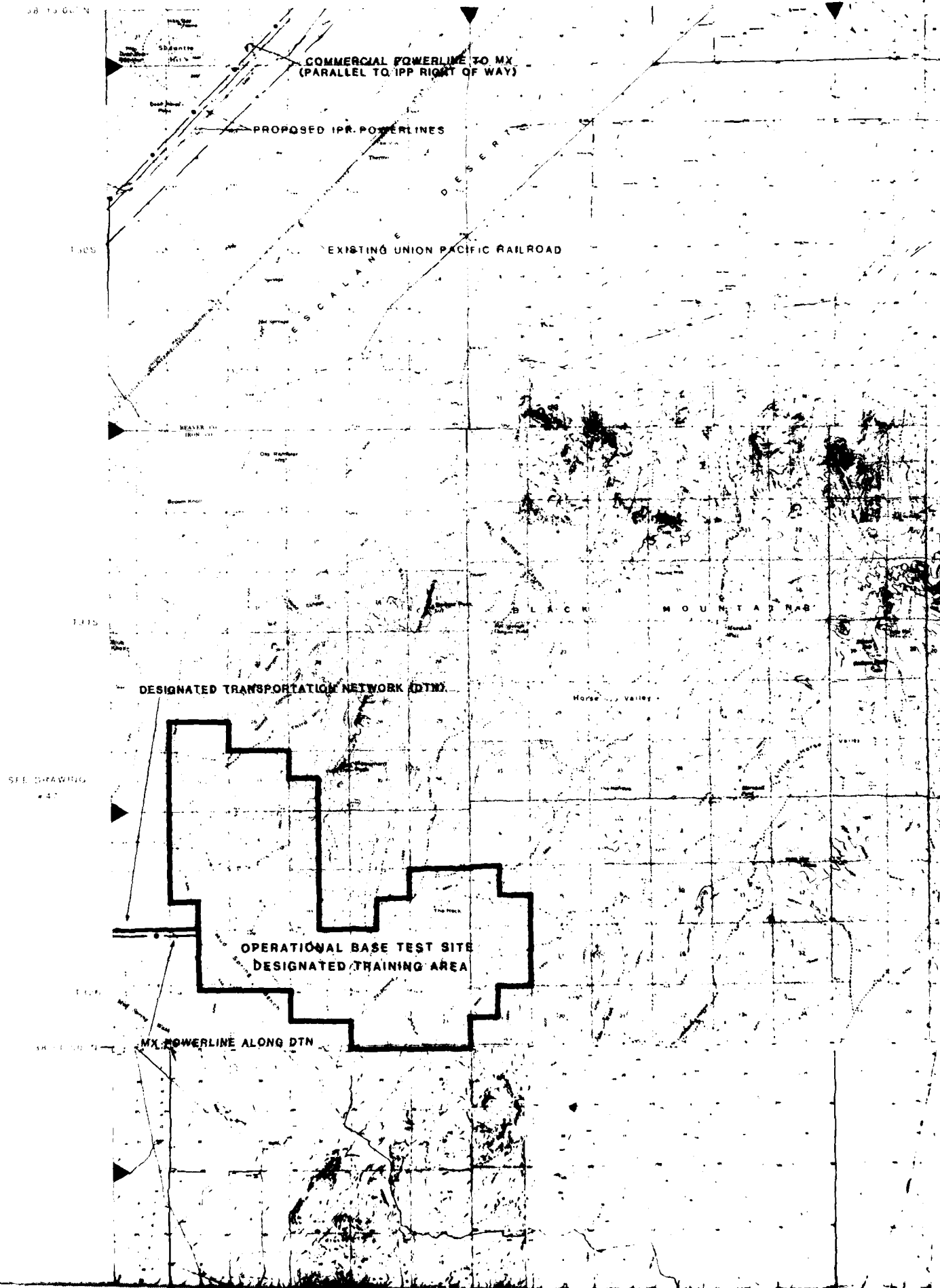
SIGNATURE DATE
DRAWN BY *A. Sanders* 4/17/01
CHECKED BY *A. Sanders*
GEOTECHNICAL *W. R. Rader* 4/17/01
SITE *F. L. Snyder* 4/17/01
ENVIRONMENTAL

OPTION G MILFORD

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER	APPROVED BY	DATE
CORPS OF ENGINEERS	AIR FORCE REGIONAL CIVIL ENGINEER - MX	
APPROVED BY	DRAWING NUMBER 47	REV
USAF BALLISTIC MISSILE OFFICE	SHEET _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	10/01	REVISION - CORRECTED TO REFLECT FIELD DATA	<i>F. L. Snyder</i>	10/01
REVISIONS				



113° 00' 00" W

R10W

R9W SEE DRAWING #55

R8W

112° 45' 00" W



H&W

112° 45' 00" W

R7W

R6W

112° 30' 00" W

38° 15' 00" N

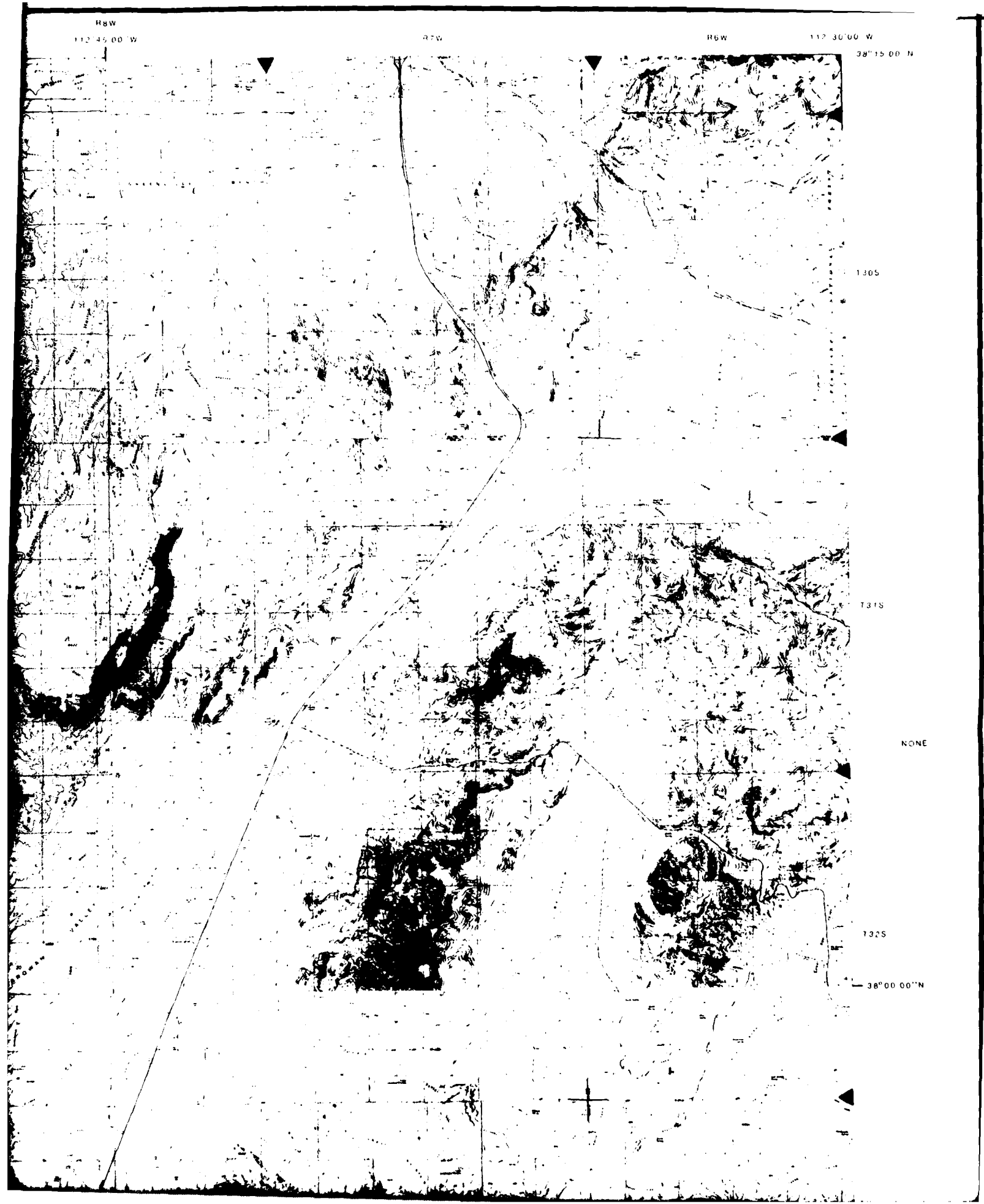
1305

1315

NONE

1325

38° 00' 00" N



SEE DRAWING
47

OPERATIONAL BASE TEST SITE
DESIGNATED TRAINING AREA

MX POWERLINE ALONG DTN

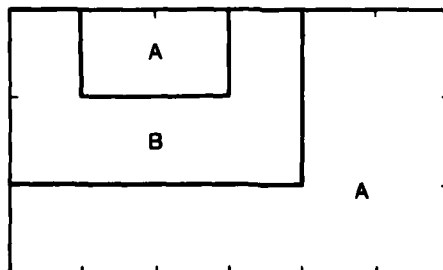
37°52'30" N

113°15'00" W

R12W

R11W

BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



112°45'00\"/>

R7W

R6W

112°30'00\"/>

PROJECT MAP SHEET

STATE: UTAH	RAILROADS: UNION PACIFIC
COUNTY: BEAVER, IRON	STATE ROADS: 89, 130
LOCAL COMMUNITY: MINERSVILLE	FEDERAL ROADS: INTERSTATE 15
PARAGONAH	

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY: <i>J. M. ...</i>	1/17/61
CHECKED BY: <i>A. Sardis</i>	
GEOTECHNICAL	
<i>Stacy M. ...</i>	1/17/61
STRUCTURAL	
<i>R. J. ...</i>	1/17/61
ENVIRONMENTAL	

OPTION G MILFORD

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA, UTAH

SYSTEMS ENGINEER	APPROVED BY	DATE
CORPS OF ENGINEERS	AIR FORCE REGIONAL CIVIL ENGINEER-MX	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE	APPROVED BY	DRAWING NUMBER: 56	REV
----------	------	-------------	-----------	------	-------------	--------------------	-----

REVISIONS

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

FILED IN 4-17 5-23

114 00'00"W

R19W

R18W

R17W
113 45'00"W

38 15'00"N

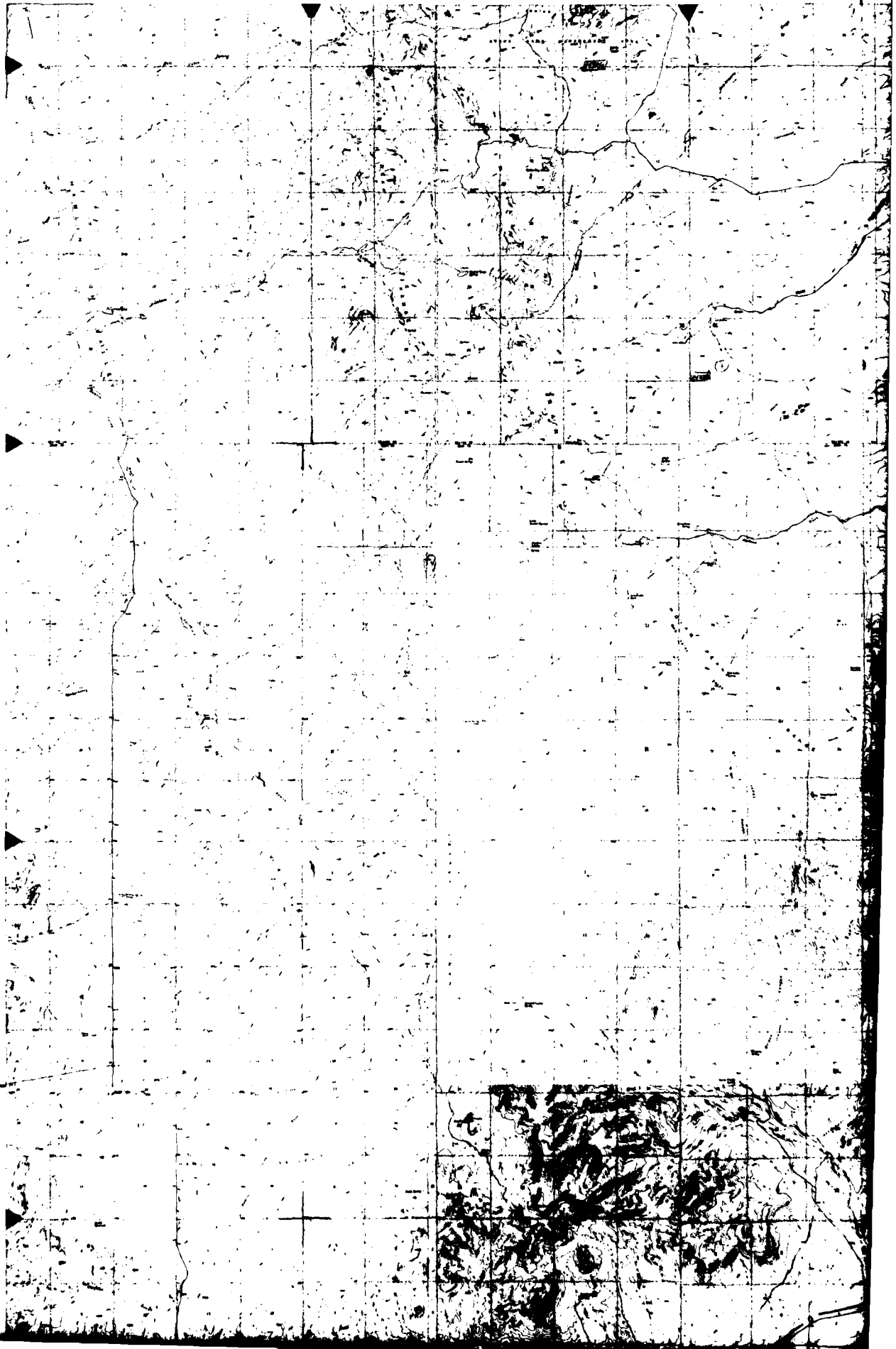
T30S

T31S

SEE DRAWING
#37

T32S

38 00'00"N



R17W
113 45'00"W

R16W

SEE DRAWING #46

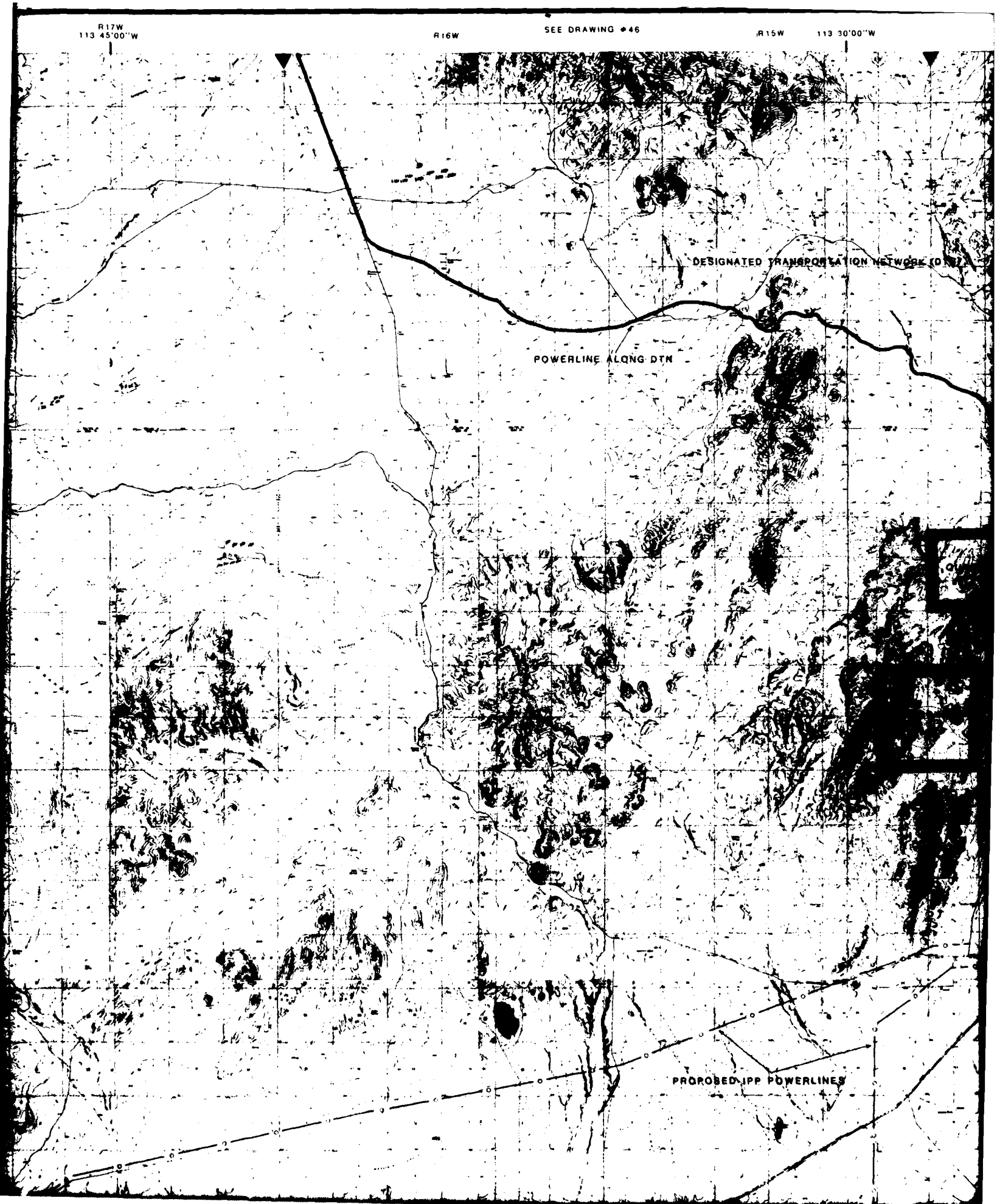
R15W

113 30'00"W

DESIGNATED TRANSPORTATION NETWORK (DTN)

POWERLINE ALONG DTN

PROPOSED IPP POWERLINES



113 30'00"W

R14W

R13W

113 15'00"W

38 15'00"N

TRANSPORTATION NETWORK (DTN)

COMMERCIAL POWERLINE TO MX
PARALLEL TO IPP RIGHT OF WAY

TEMPORARY CONSTRUCTION

DTN

MX POWERLINE
ALONG DTN

MAIN OPERATING BASE/
DESIGNATED ASSEMBLY AREA

RELOCATION OF PROPOSED IPP POWERLINES
(EXACT LOCATION WILL BE IDENTIFIED AFTER
COMPLETION OF PER HA SITE SPECIFIC STUDIES)

SEE DRAWING
#56

EXISTING UNION PACIFIC RAILROAD

POWERLINES

T305

T315

T325

38'00'00"N

SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°52'30"N

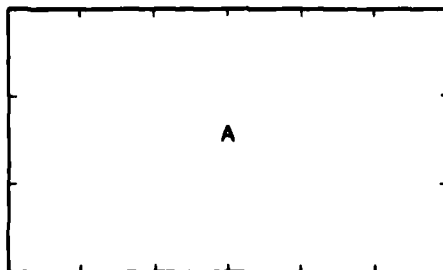
114°00'00"W

R19W

R18W

PROPOSED IPP R

BASE MAP SOURCE INSET

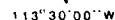


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETR) AT 1:62,500



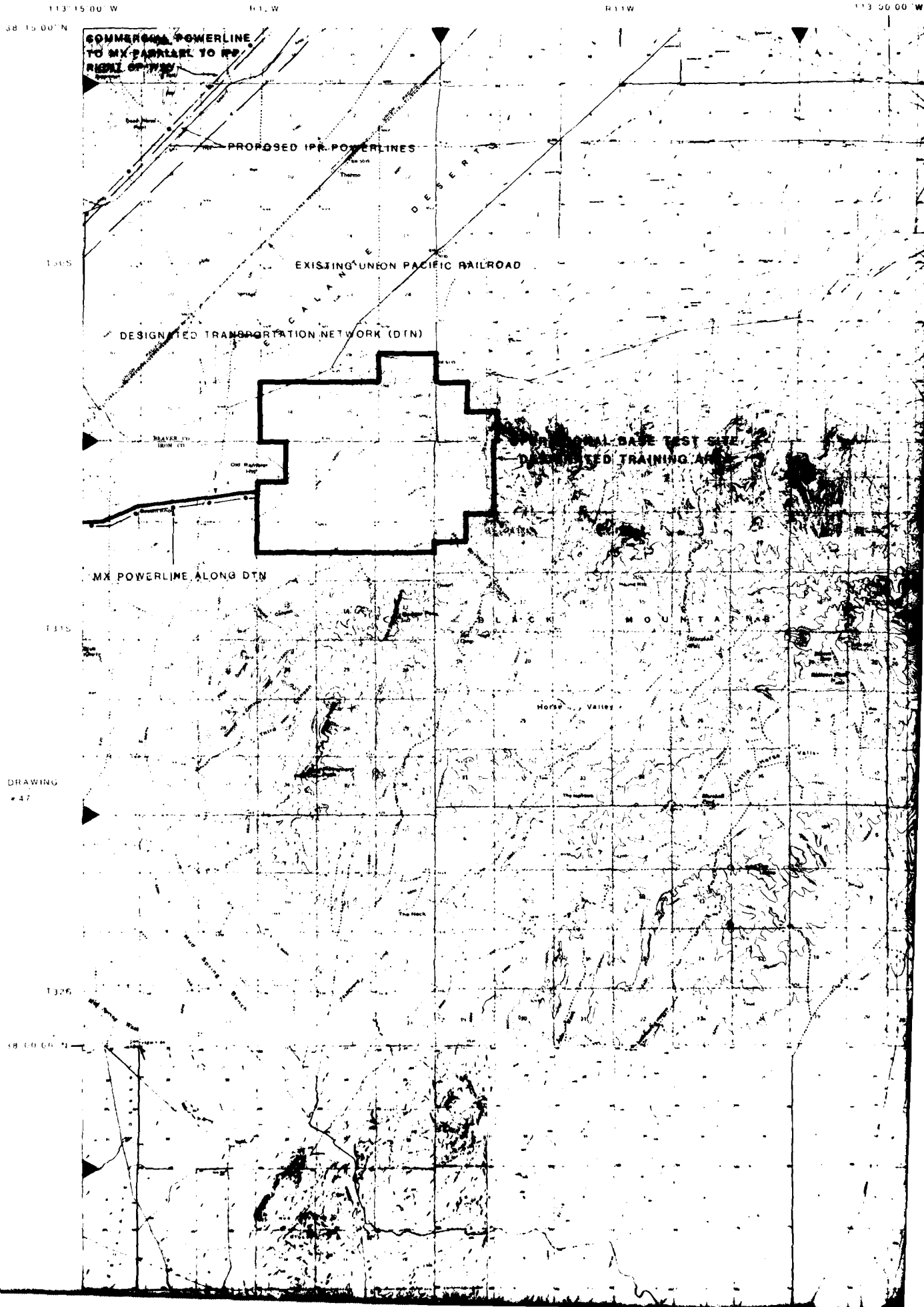
SFF DRAWING # 48



KILOMETERS

NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

[illegible]



000 W

R10W

R9W SEE DRAWING #55

R8W

112°45'00"W



HOW

117 45 00 W

HOW

HOW

117 30 00 W

28 15 00 N

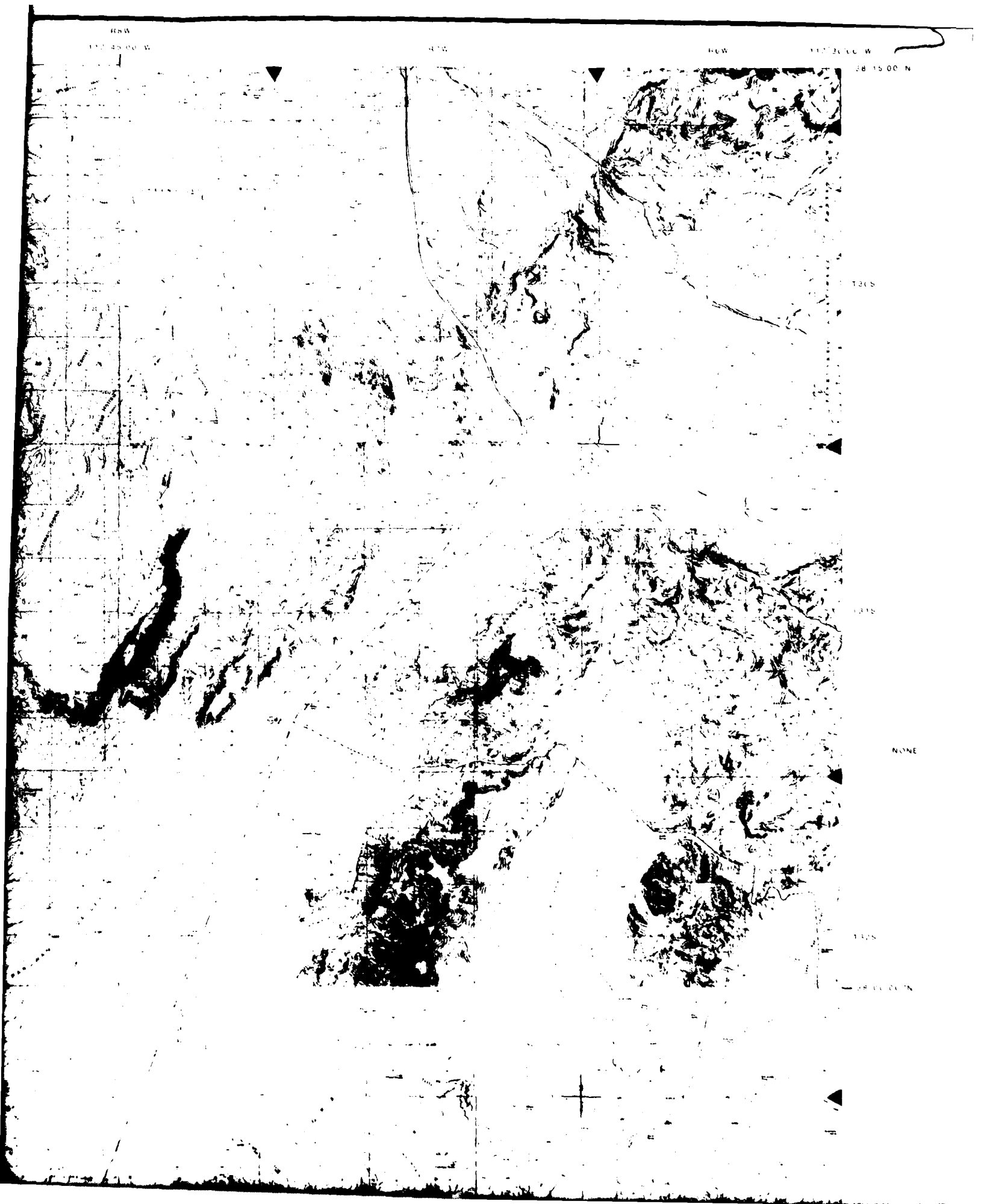
1205

1215

NONE

1225

1235



AD-A113 218

ERTEC WESTERN INC .LONG BEACH CA

F/G 13/2

MX SITING INVESTIGATION. MX SYSTEM SITING SUMMARY REPORT. LAND --ETC(U)

JAN 82

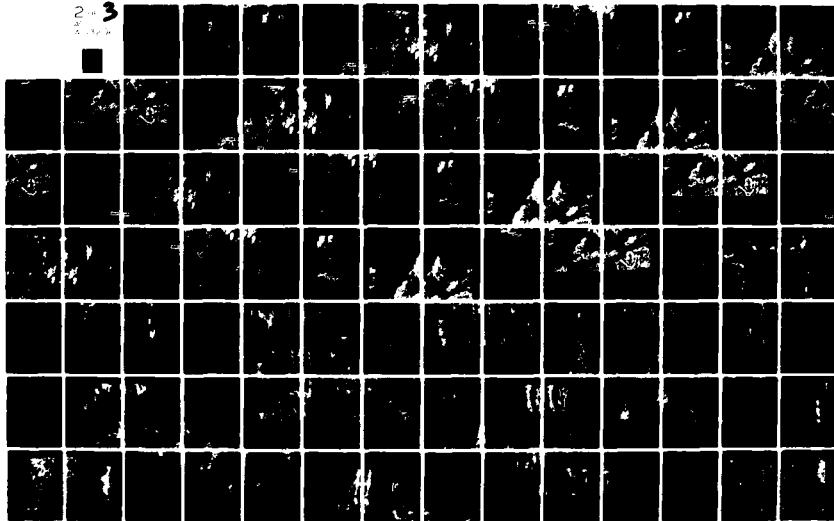
F04704-80-C-0006

UNCLASSIFIED

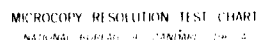
E-TR-58-VOL-3

NL

2-3
A 113 218



A 1 1 3 2 1 8



SEE DRAWING
#47

1326

38°00'00"N

1335

37°52'30"N

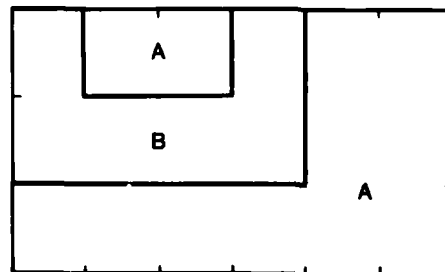
113°15'00"W

R12W

R11W

113°00"

BASE MAP SOURCE INSET

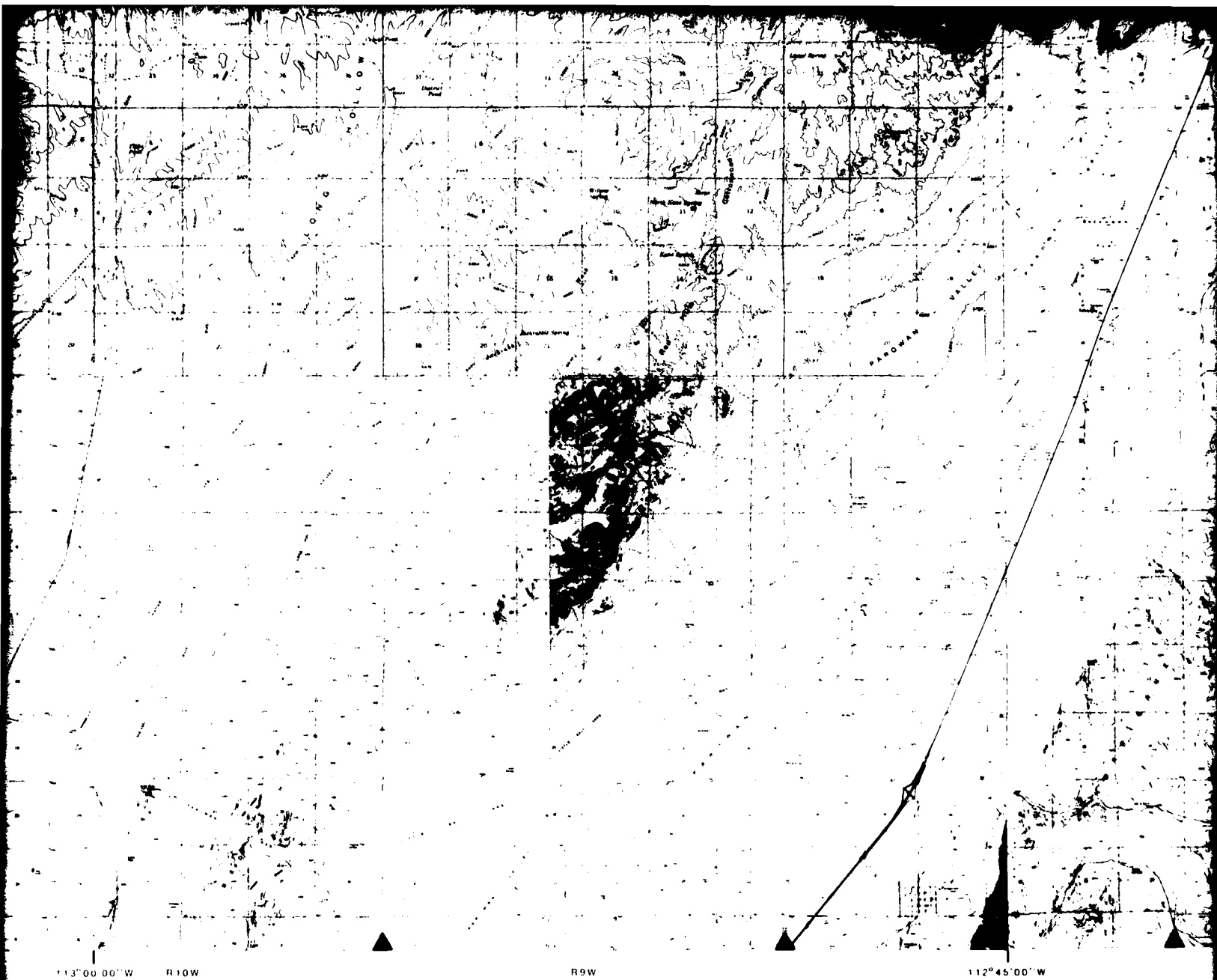
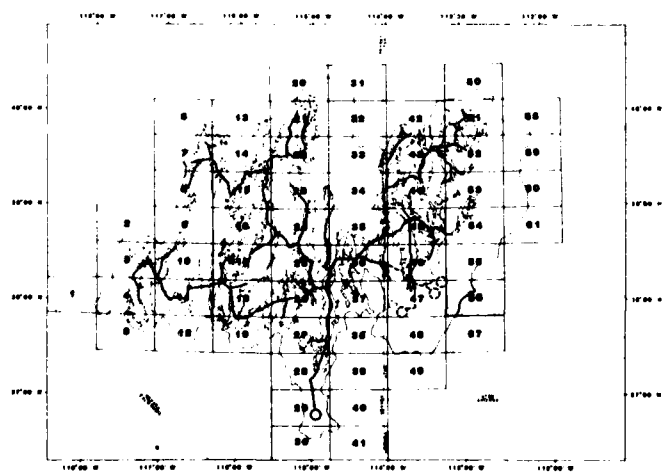


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

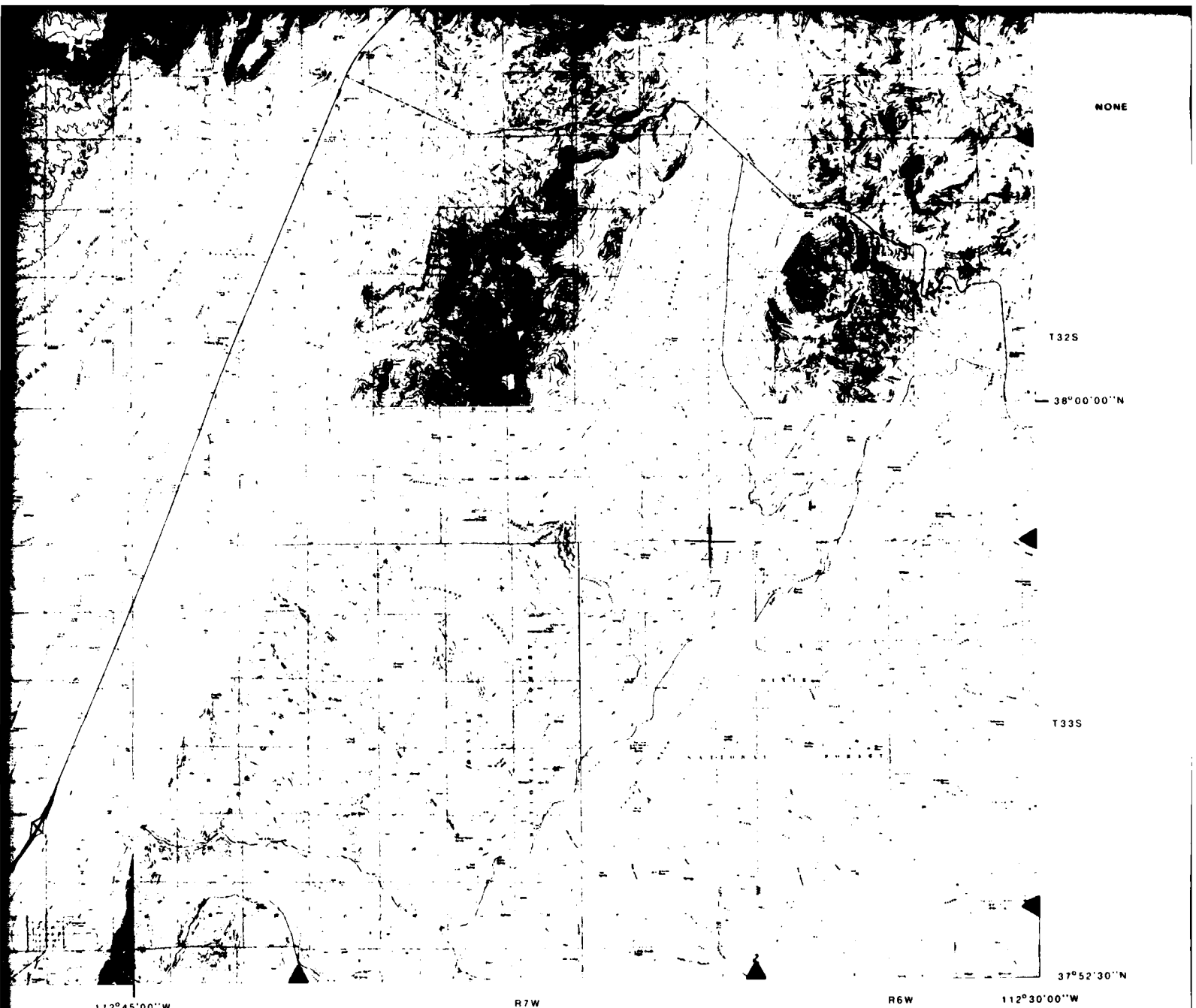
**MAP SHEET LOCATION**

SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	02/01	REVISED NOTES
REVISION	DATE	DESCRIPTION
		REV



NONE

T32S

38°00'00"N

T33S

37°52'30"N

112°45'00"W
R8W

R7W

R6W

112°30'00"W

PROJECT MAP SHEET

STATE: _____	RAILROADS: UNION PACIFIC
COUNTY: _____	STATE ROADS: HWY 10, 20, 120
LOCAL COMMUNITY: MINERSVILLE	FEDERAL ROADS: INTERSTATE 15
PARAGONAH	

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY: P. White	9/17/61
CHECKED BY: A. Sandoz	
GEOTECHNICAL: _____	9/17/61
ENVIRONMENTAL: _____	9/17/61

OPTION H MILFORD

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER: _____	APPROVED BY: _____	DATE: _____
CORPS OF ENGINEERS: _____	AIR FORCE REGIONAL CIVIL ENGINEER - MX	

APPROVED BY: _____	DRAWING NUMBER: 58	REV: _____
USAF BALLISTIC MISSILE OFFICE	SHEET _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	9/17/61	REVISED DEDS	J.D. Snyder	9/21/61
REVISIONS				

114°00'00"W

R19W

R18W

R17W
113°45'00"

38°15'00"N

T30S

T31S

SEE DRAWING
#37

T32S

38°00'00"N

OPERATIONAL
BASE TEST SITE/
DESIGNATED
TRAINING AREA

POWERLINE ALONG BTR

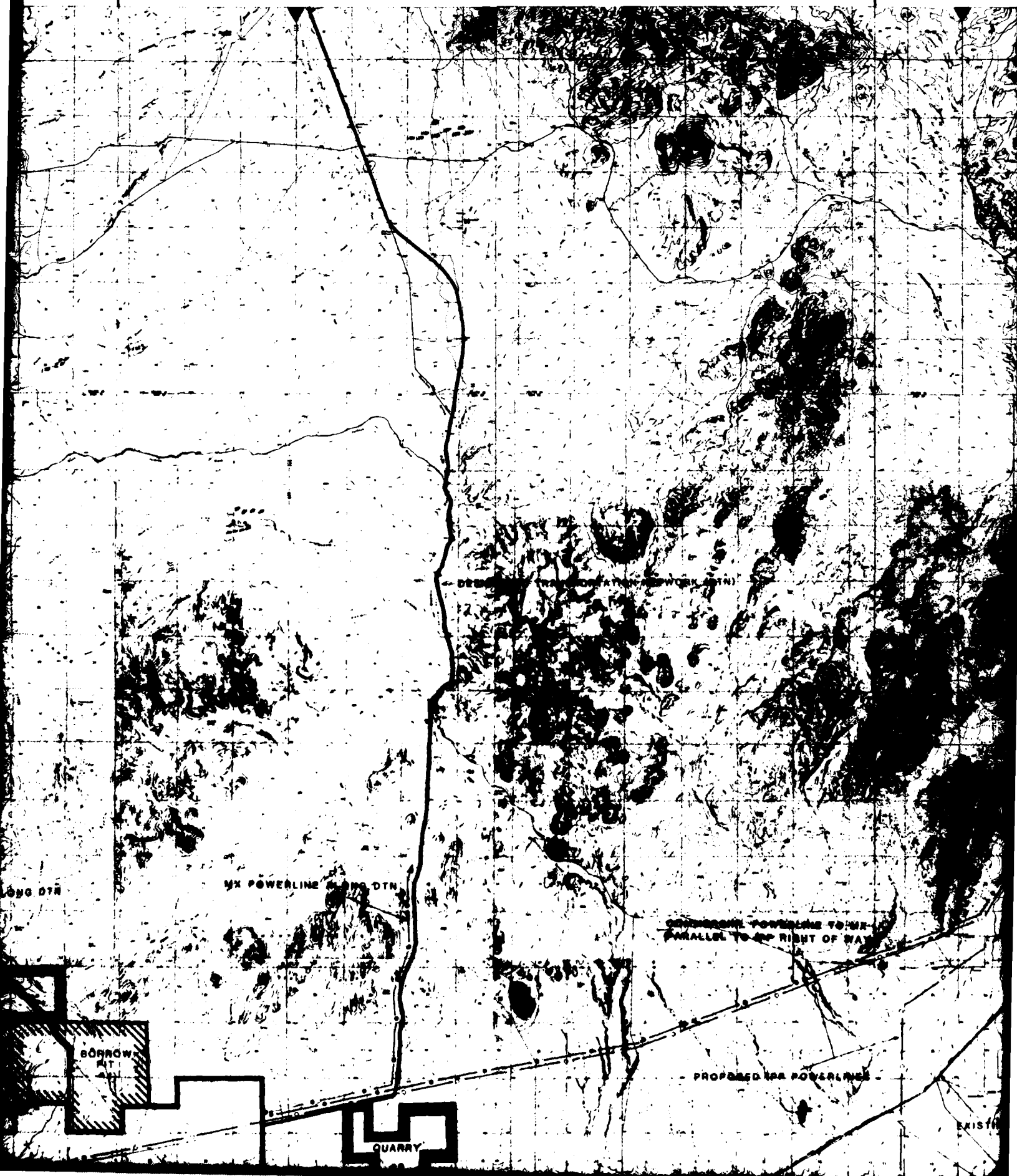
BORNEO

R17W
113 45'00"W

R16W

SEE DRAWING #46

R15W
113 30'00"W



R15W

113°30'00"W

R14W

R13W

113°15'00"W

38°15'00"N

T30S

T31S

SEE DRAWING
#56

T32S

38°00'00"N

POWERLINE TO NE-
OF RIGHT OF WAY

AREA POWERLINE

EXISTING UNION PACIFIC RAILROAD

SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°52'30"N

114°00'00"W

R19W

OPERATIONAL
BASE TEST SITE/
DESIGNATED
TRAINING AREA

POWERLINE ALONG DYN

BORROW
PIT

MAIN OPERATING
DESIGNATED ASSE

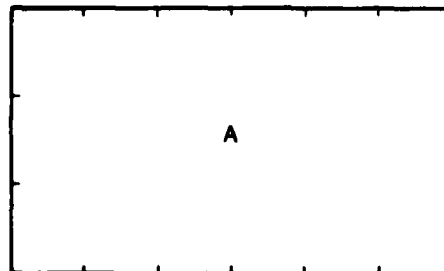
BORROW PIT #2

R18W

113°45'00"W

R17W

BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

SEE DRAWING
56

T325

38° 0' 00" N

T335

37° 52' 30" N

LINE TO
POINT OF WAY

POWER LINES

EXISTING UNION PACIFIC RAILROAD

R5W

113° 30' 00" W

R14W

R13W

113° 15' 00" W

PROJECT MAP SHEET

STATE: UTAH

RAILROADS: UNION PACIFIC

COUNTY: BEAVER, IRON

STATE ROADS: HWY 10

LOCAL COMMUNITY: LUND, BERYL

FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE DATE

DRAWN BY: P. McLeod

9/1/61

CHECKED BY: A. Smith

9/1/61

GEOTECHNICAL:

9/1/61

ENVIRONMENTAL:

9/1/61

SYSTEMS ENGINEER:

9/1/61

CORPS OF ENGINEERS:

9/1/61

OPTION I-BERYL

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

APPROVED BY:

DATE

APPROVED BY:

AIR FORCE REGIONAL CIVIL ENGINEER-MX

DRAWING NUMBER: 47

REV

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

REVISIONS

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	9/1/61	ADDED - BERYL, NEVADA - OPTION I	<i>P. McLeod</i>	9/1/61

114°00'00"W
37°52'30"N

R19W

R18W

R17W
113 45'00"

MAIN OPERATING BASE
DESIGNATED ASSEMBLY

T34S

37°45'00"
T35S

SEE DRAWING
#38

T36S



R17W

111°45'00"W

R16W

SEE DRAWING #47

R15W

113°30'00"W

ING BASE/
SEMBLY AREA



113°30'00"W

R14W

R13W

113°15'00"W

37°51'30"N

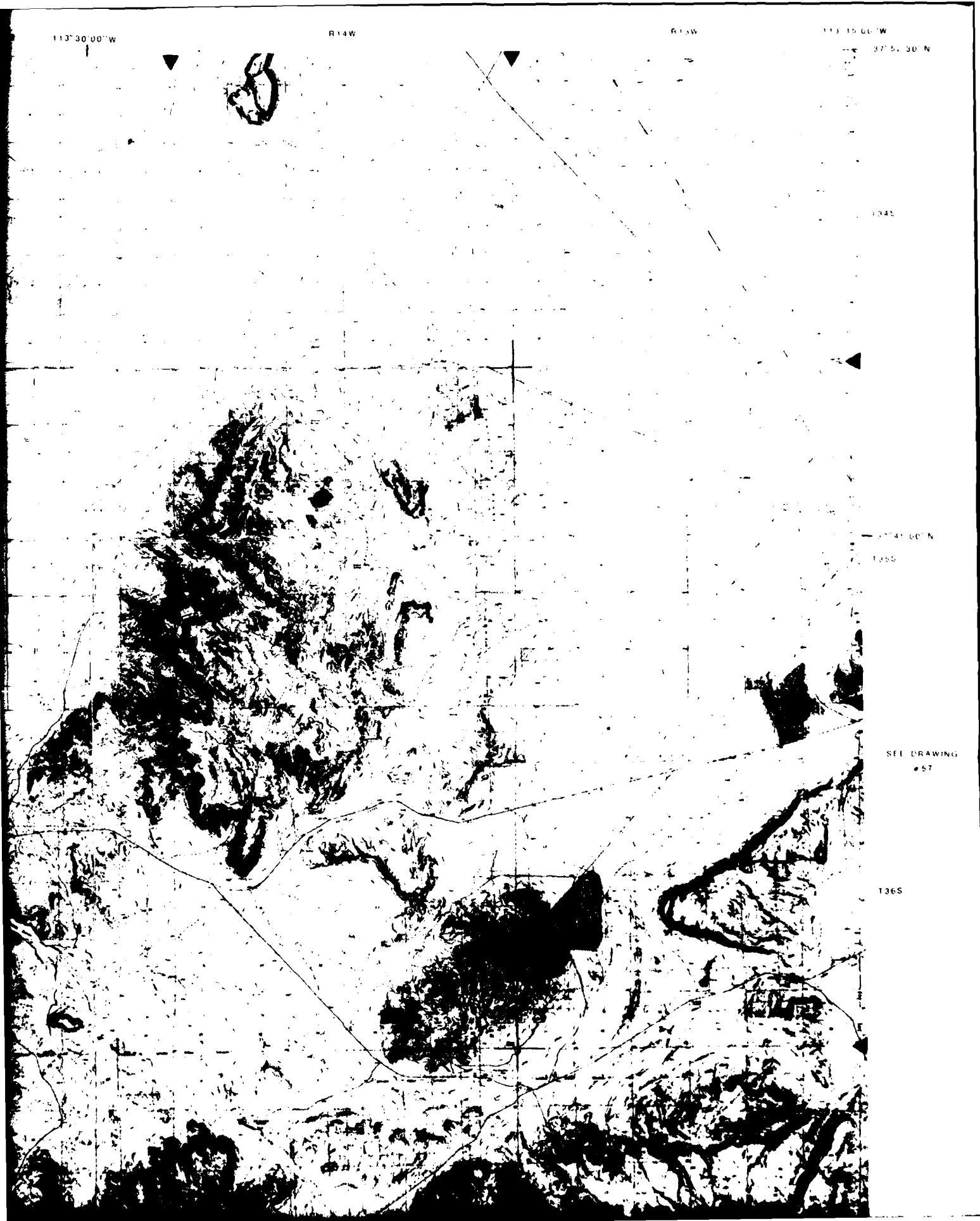
1345

37°41'00"N

1350

SEE DRAWING
#57

1365



SEE DRAWING
#38

136S

137S

138S

37°30'00"N

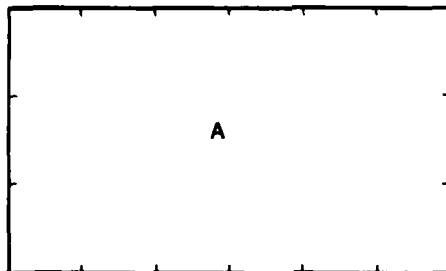
114°00'00"W

R19W

R18W

113

BASE MAP SOURCE INSET

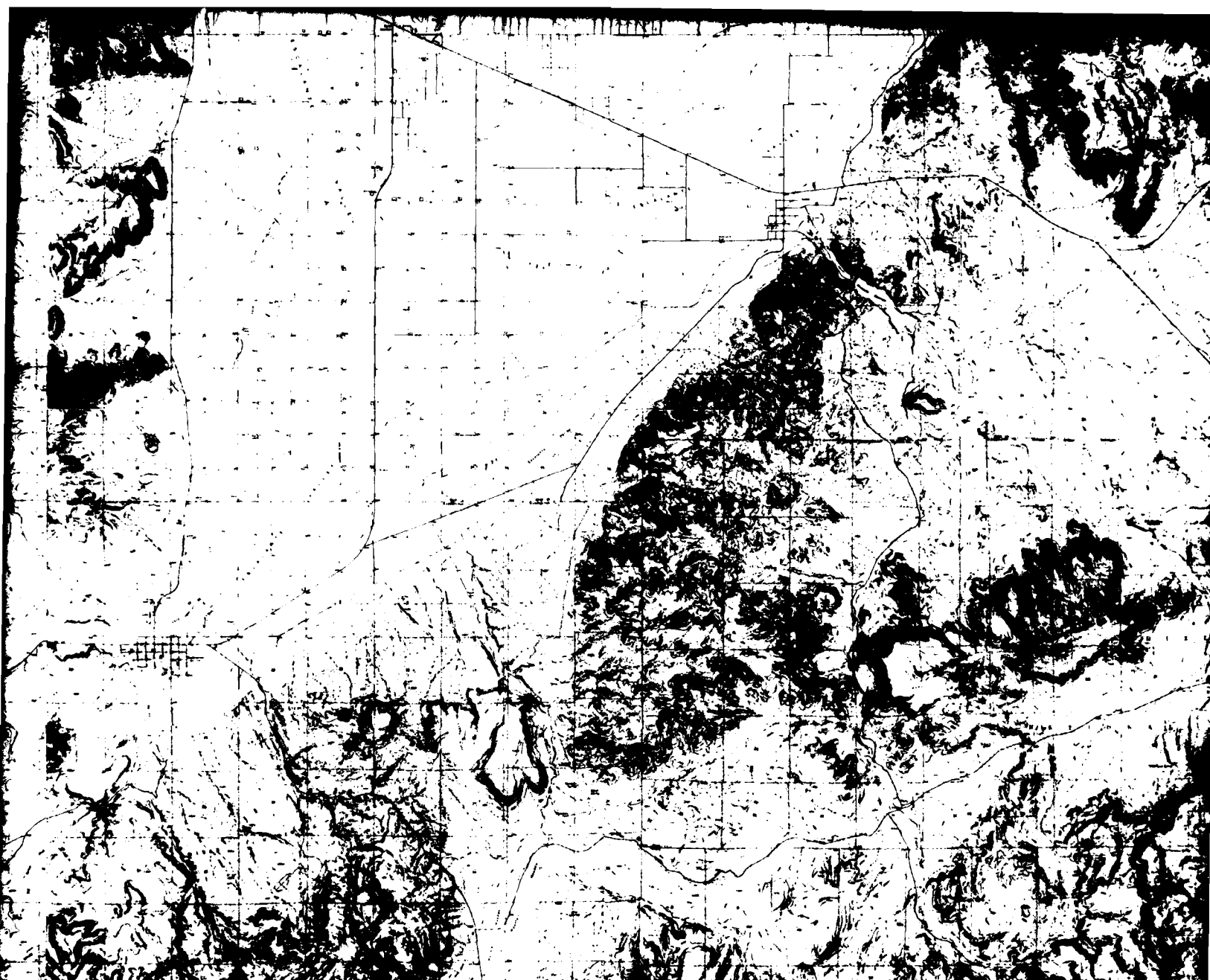


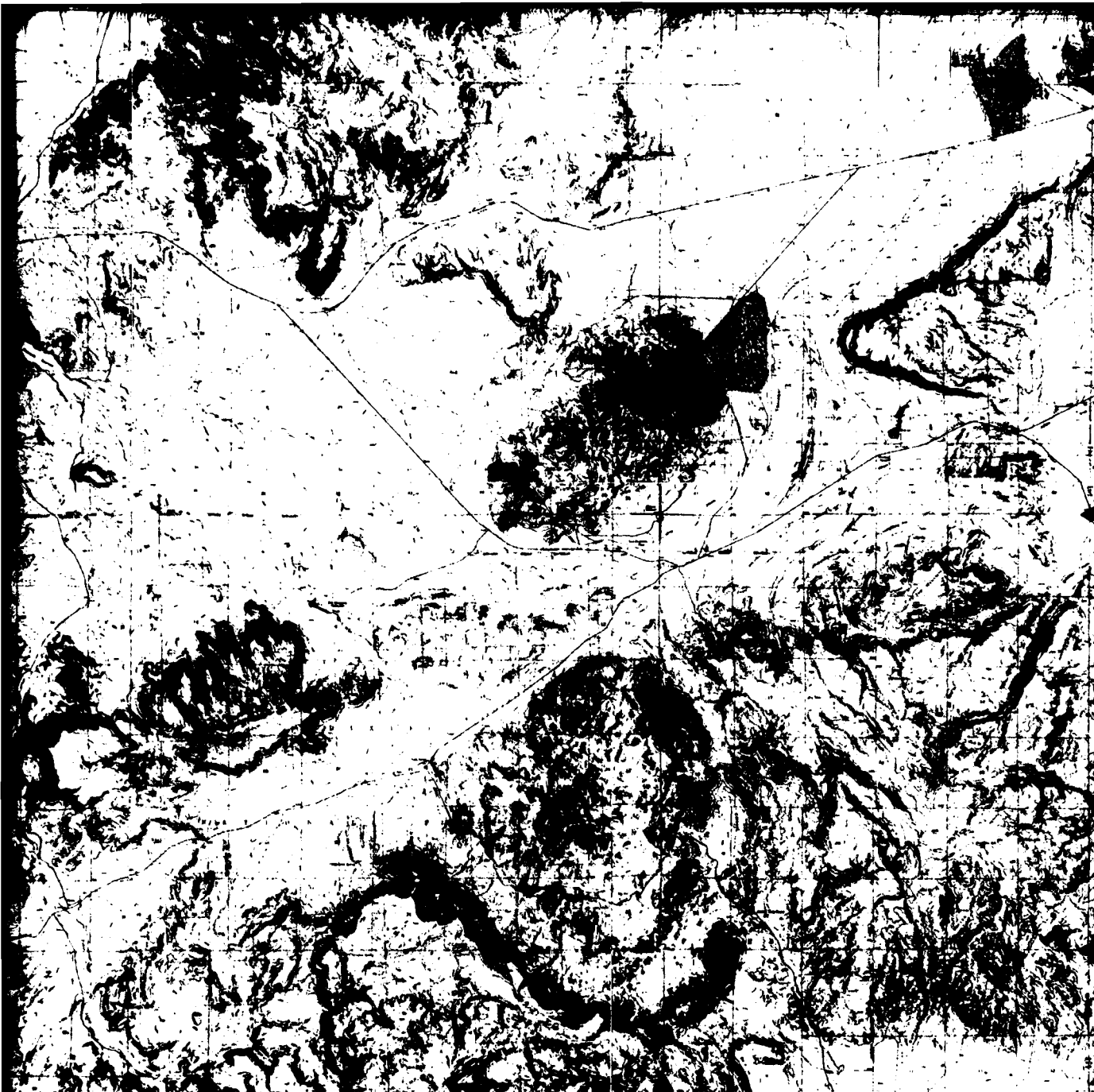
A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500





SEE DRAWING
57

T365

T375

T385

37°30'00"N

11°10'00"W

R14W

R13W

113°15'00"W

PROJECT MAP SHEET

STATE: UTAH	RAILROADS: UNION PACIFIC
COUNTY: IRON, WASHINGTON	STATE ROADS: HWY 56, 18
LOCAL COMMUNITY: NEWCASTLE, BERYL, MODENA, ENTERPRISE	FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY <i>P. Vukobratovic</i>	9/1/78
CHECKED BY <i>A. Sordis</i>	
GEOLOGICAL	
HYDROLOGICAL	
SITING	
ENVIRONMENTAL	

OPTION I-BERYL

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER	
CORPS OF ENGINEERS	

APPROVED BY

DATE

AIR FORCE REGIONAL CIVIL ENGINEER - MX

DIVISION	DATE	DESCRIPTION	SIGNATURE	DATE
----------	------	-------------	-----------	------

REVISIONS

APPROVED BY

DRAWING NUMBER 48

REV

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

14°00'00"W
38°15'00"N

R19W

R18W

R17W
113°45'00"W

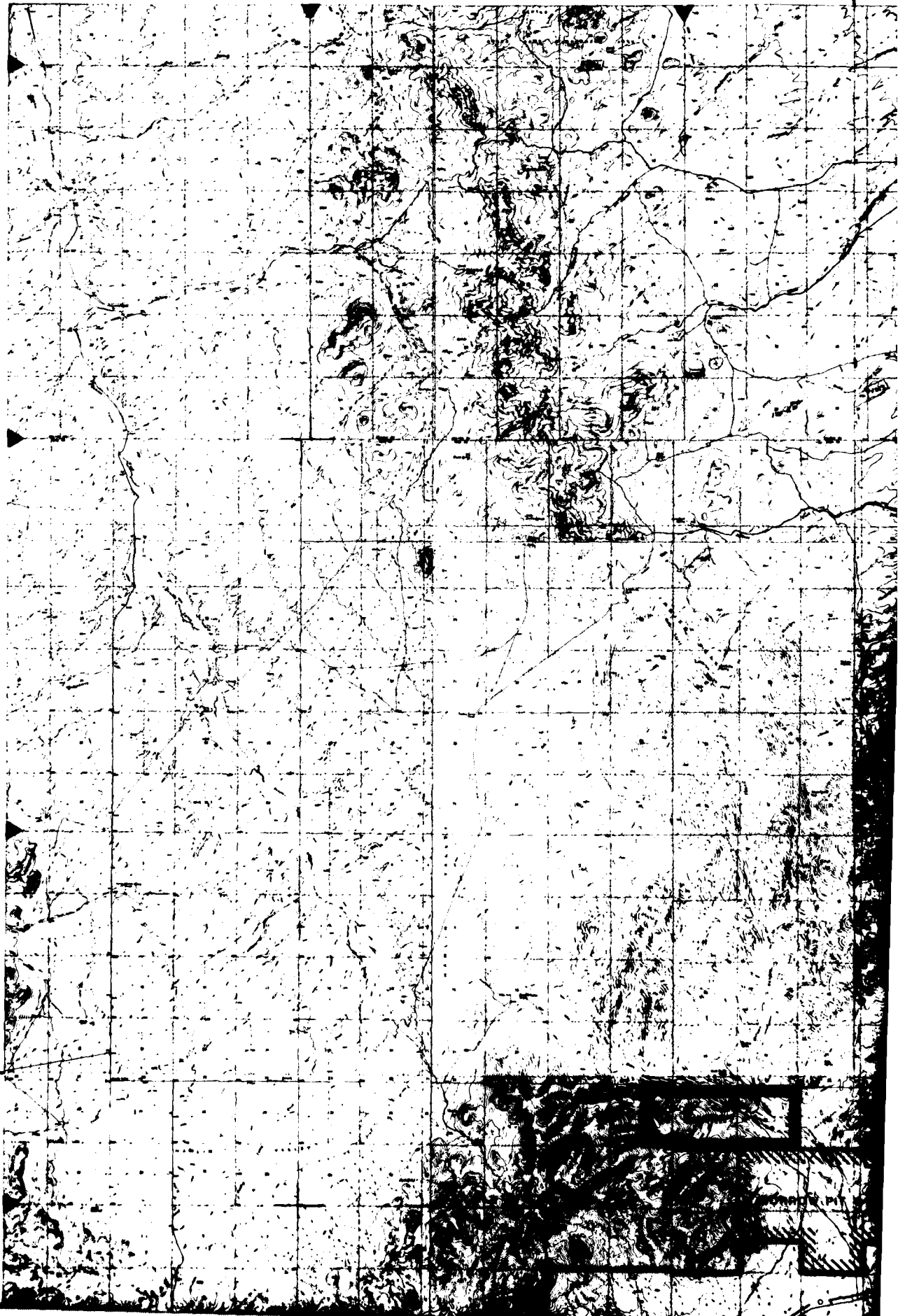
T30S

T31S

SEE DRAWING
#37

T32S

38°00'00"N



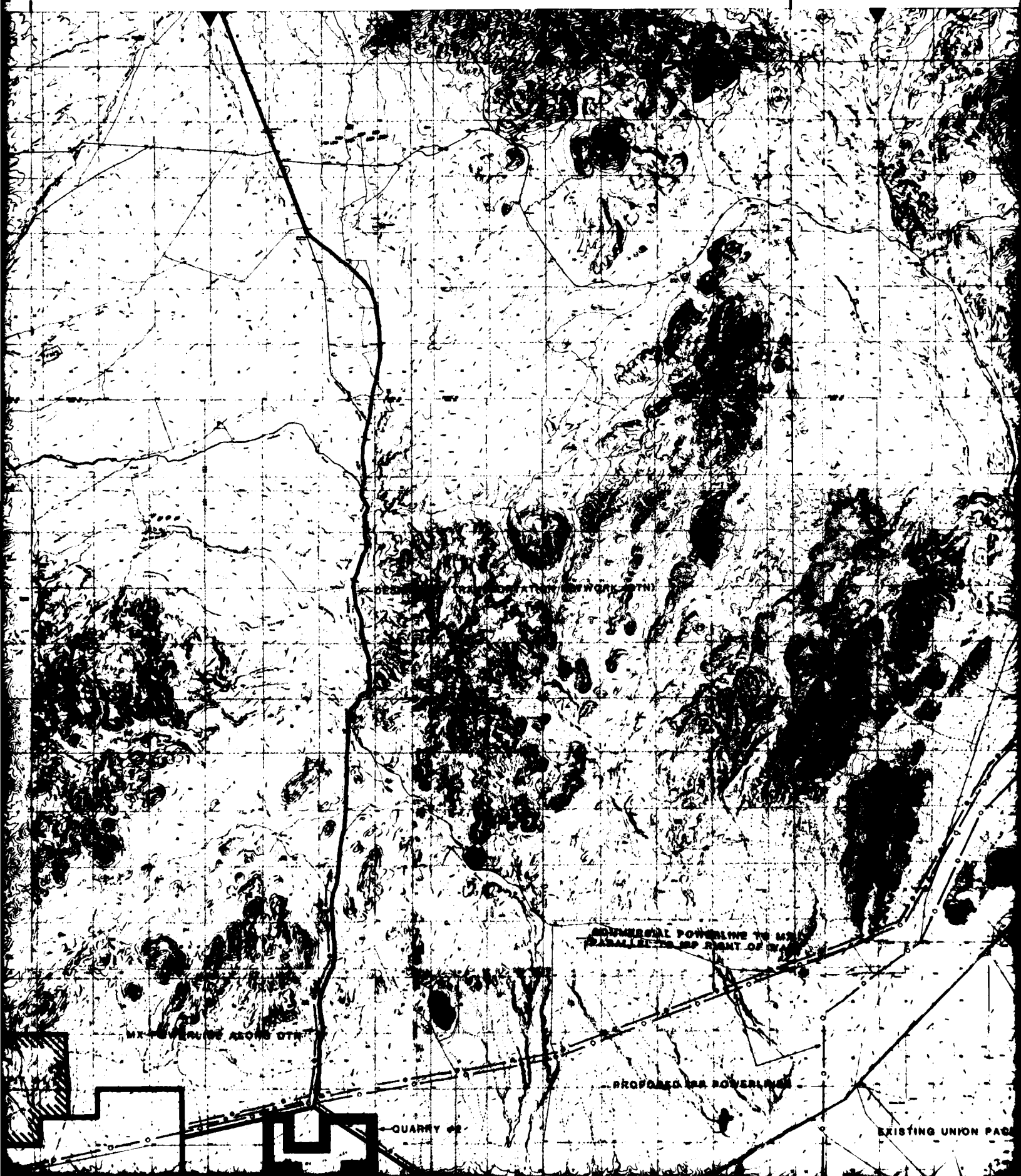
R17W
45°00'W

R16W

SEE DRAWING #48

R15W

113°30'00"W



118W

113°30'00"W

R14W

R13W

113°15'00"W

38°15'00"N

T30S

T31S

SEE DRAWING
#56

T32S

38°00'00"N

EXISTING UNION PACIFIC RAILROAD

SEE DRAWING
#37

T32S
38°00'00"N

T33S

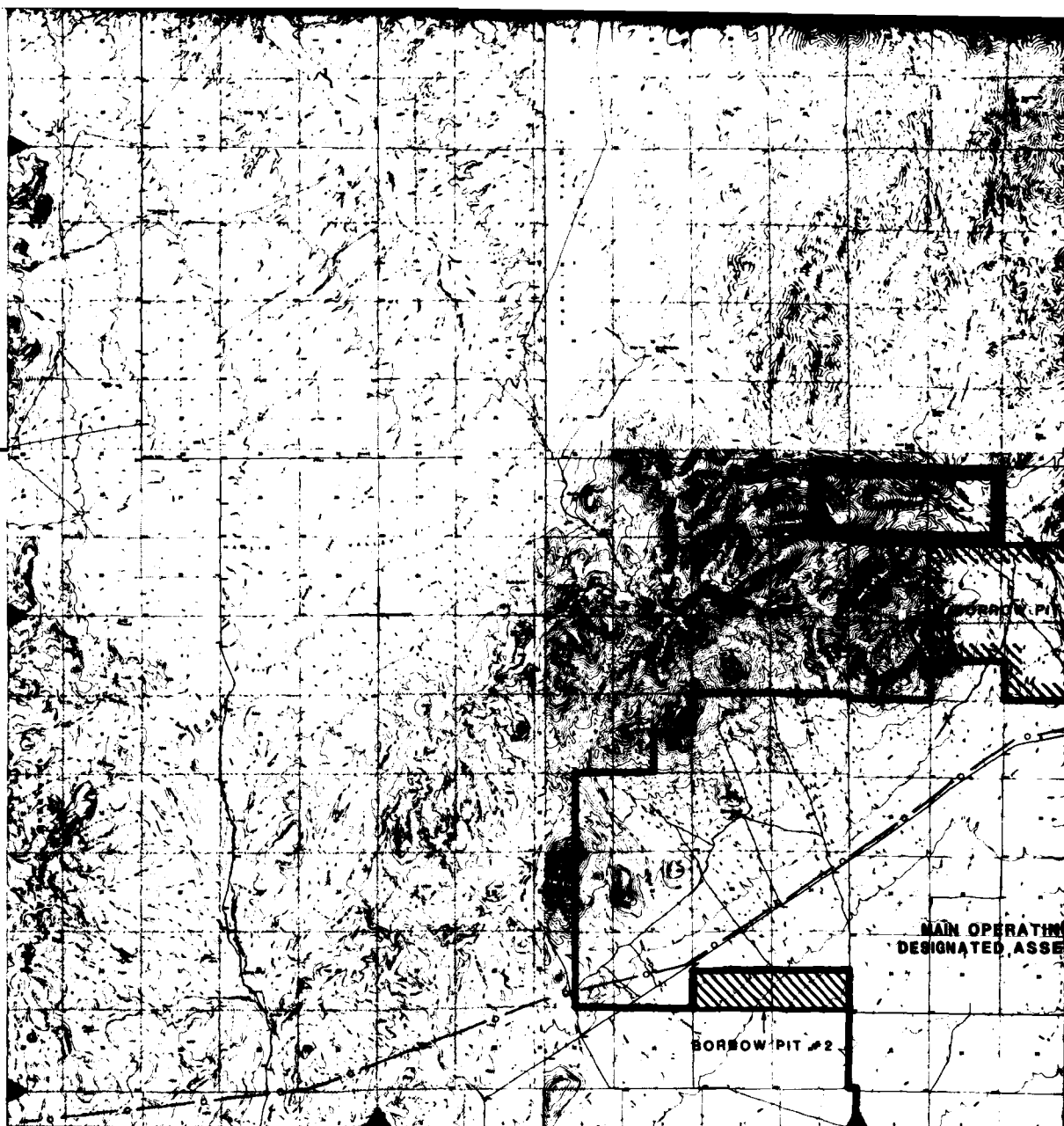
37°52'30"N

114°00'00"W

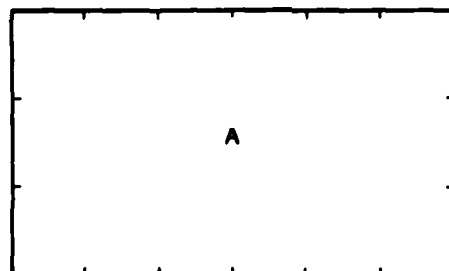
R19W

R18W

113°45'
R1



BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

114°00'00"W
37°52'30"N

R19W

R18W

113

MAIN OPERATING
DESIGNATED ASSEMBLY

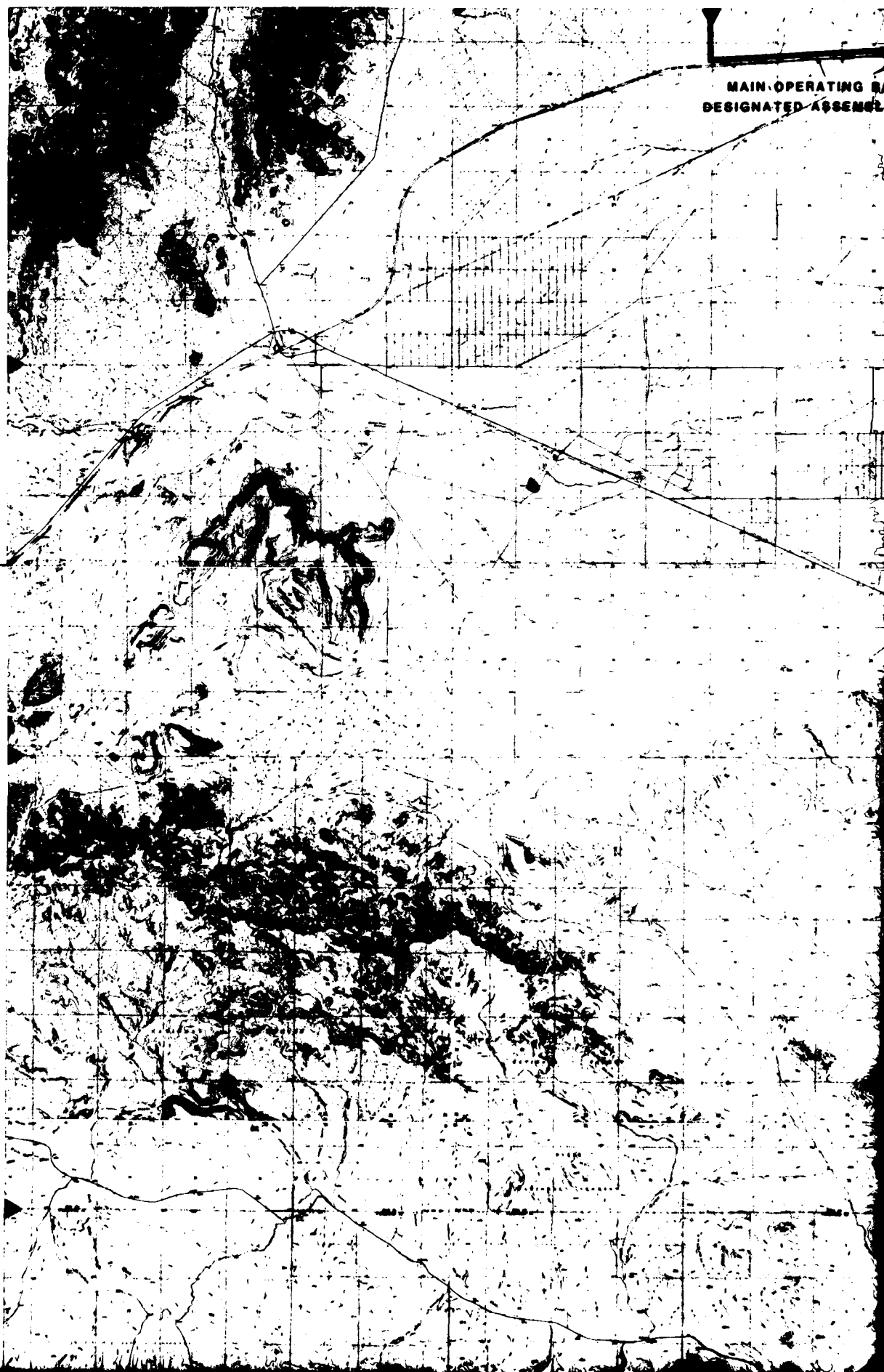
T34S

37°45'00"

T35S

SEE DRAWING
#38

T36S



R17W
113 45'00" W

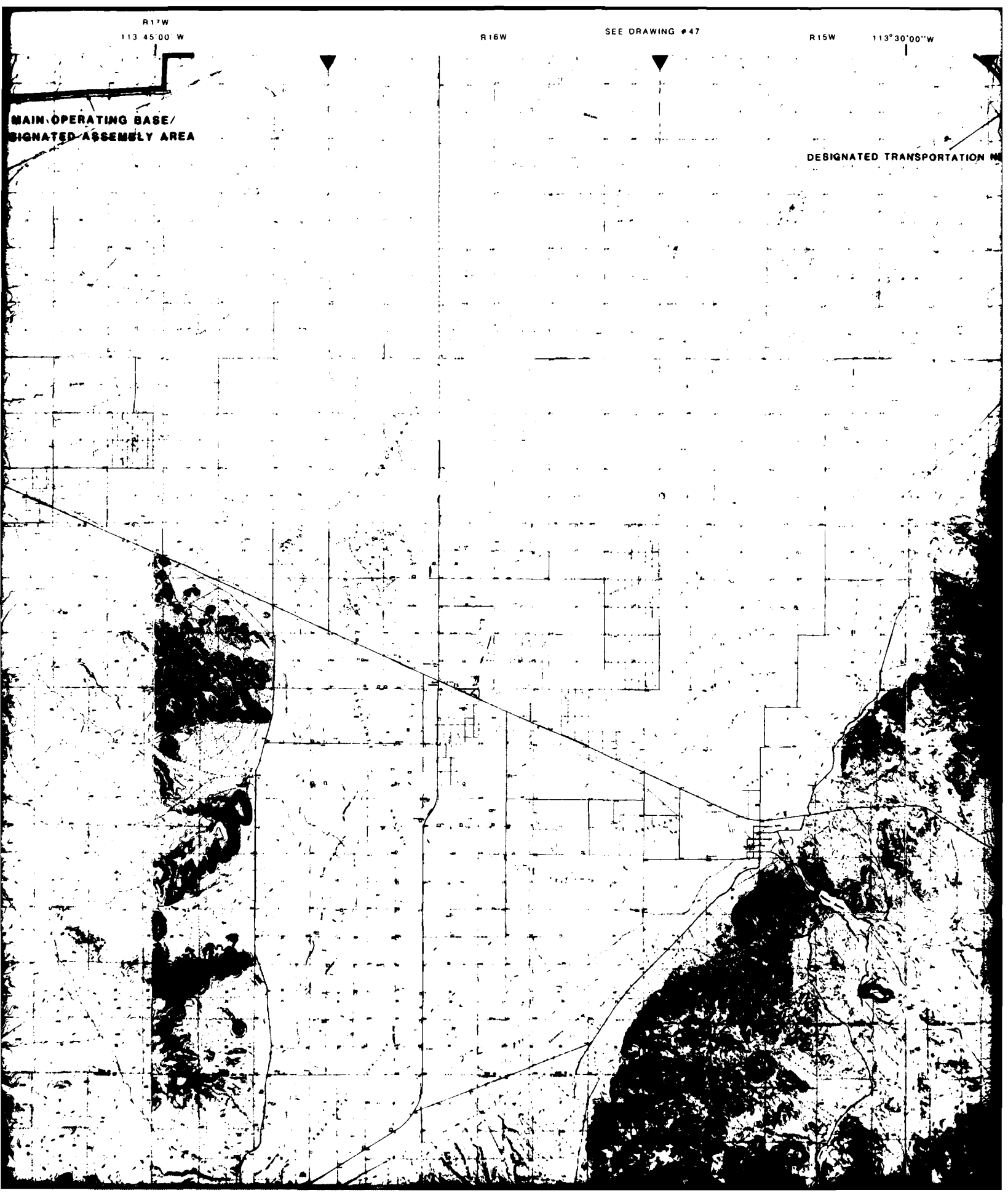
R16W

SEE DRAWING #47

R15W
113°30'00"W

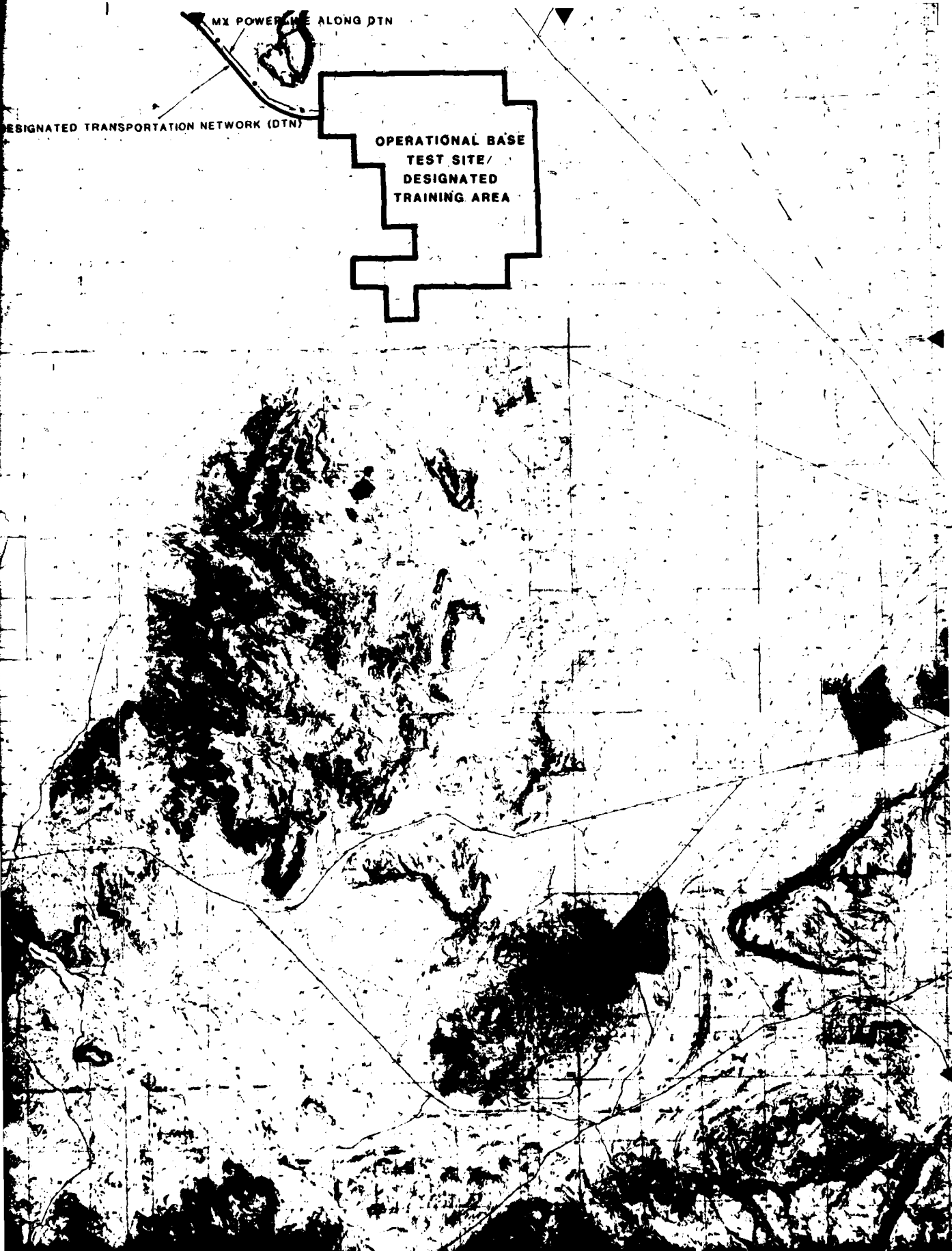
MAIN OPERATING BASE/
SIGNATED ASSEMBLY AREA

DESIGNATED TRANSPORTATION



3

15W 113°30'00"W R14W R13W 113°15'00"W 37°52'30"N



DESIGNATED TRANSPORTATION NETWORK (DTN)

OPERATIONAL BASE
TEST SITE/
DESIGNATED
TRAINING AREA

134S

17°45'00"N
135S

SEE DRAWING
#57

136S

SEE DRAWING
#38

T36S

T37S

T38S

37°30'00"N

114°00'00"W

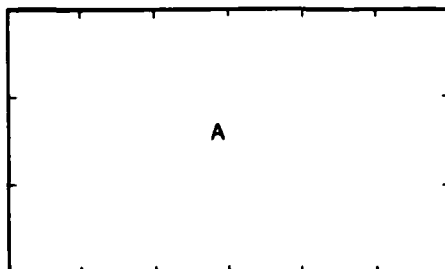
R19W

R18W

113°45'00"

R17W

BASE MAP SOURCE INSET



A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



SEE DRAWING # 49



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1 62,500



**NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000**

[illegible]

3.° 30'00" N

113°15'00"W

MODENA, ENTERPRISE

DATE _____

AIR FORCE REGIONAL CIVIL ENGINEER-MX

DRAWING NUMBER 48

REV

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

[illegible]

REVISIONS

114°00'00"W

R19W

R18W

113

38°15'00"N

T30S

T31S

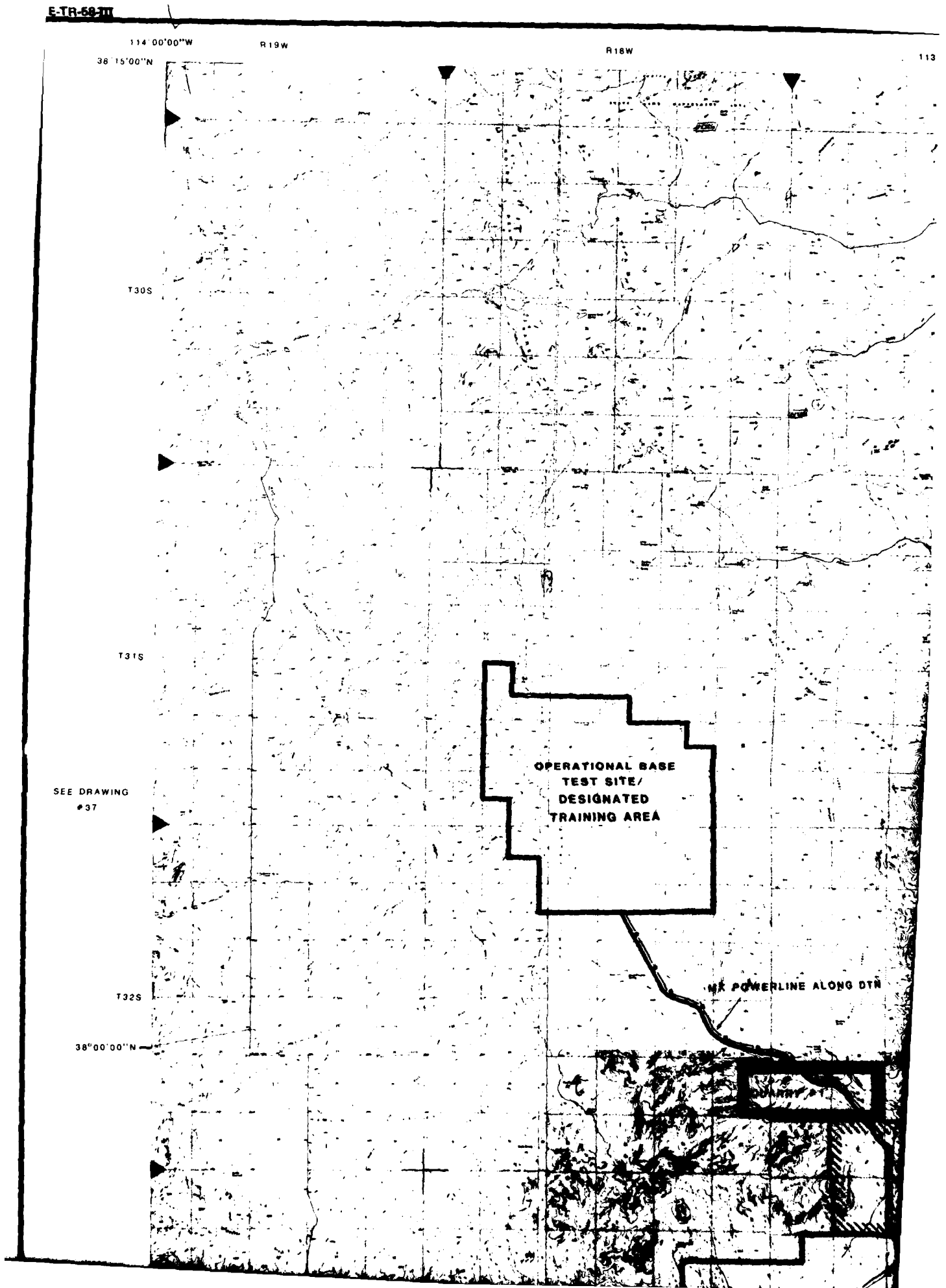
SEE DRAWING
#37

T32S

38°00'00"N

OPERATIONAL BASE
TEST SITE/
DESIGNATED
TRAINING AREA

MA POWERLINE ALONG DYN



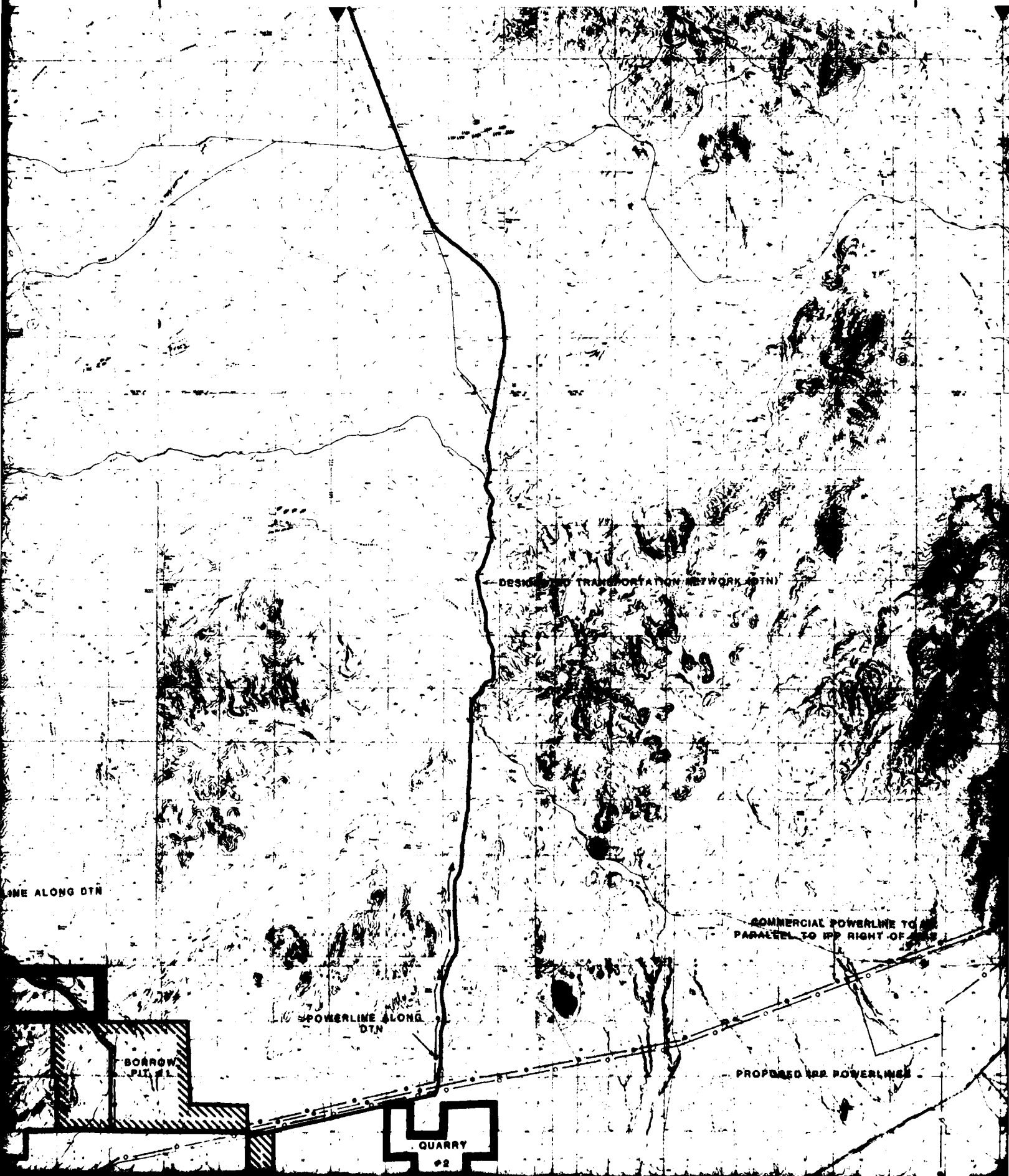
R17W
113 45'00"W

R16W

SEE DRAWING #46

R15W

113 30'00"W



R15W 113 30'00"W R14W R13W 112 15'00"W

38 15'00"N

T30S

T31S

SEE DRAWING #56

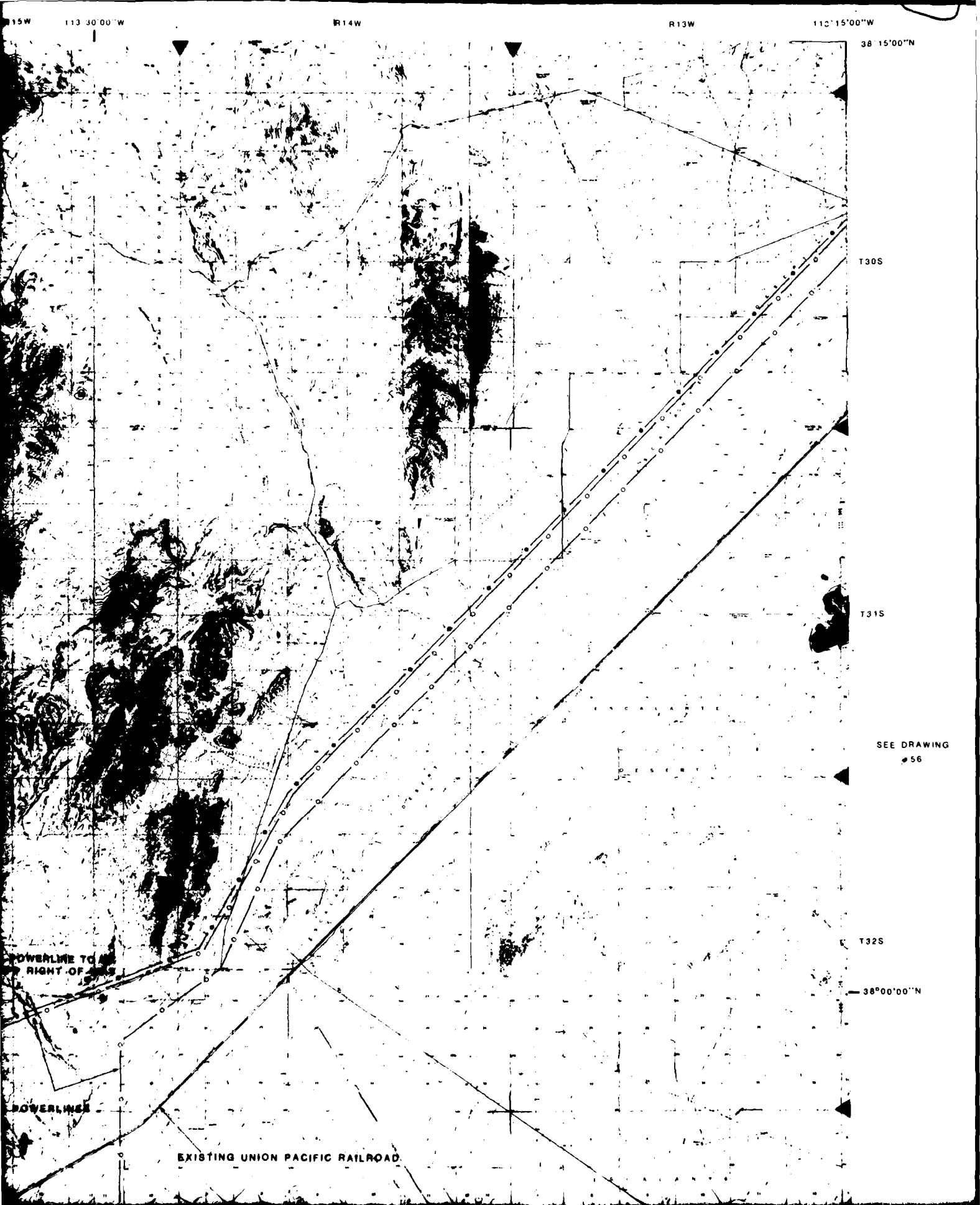
T32S

38 00'00"N

POWERLINE TO
RIGHT OF

POWERLINE

EXISTING UNION PACIFIC RAILROAD



SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°02'30"N

114°00'00"W

R19W

R18W

OPERATIONAL BASE
TEST SITE/
DESIGNATED
TRAINING AREA

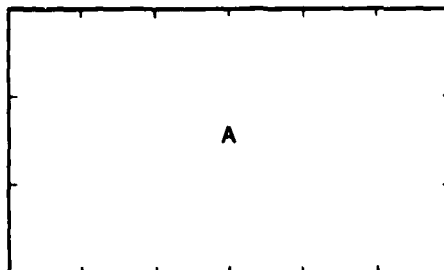
MX POWERLINE ALONG DTN

QUARRY PIT

MAIN OPERA
DESIGNATED AS

BORROW PIT #2

BASE MAP SOURCE INSET

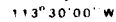


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



1	REFIN	REVISED COST, UNLACED CREDIT No. 2
REVISION	DATE	DESCRIPTION
		REVISION

114° 00' 00" W

R19W

R18W

R17

113° 45' 00" E

17° 52' 30" N

114°

17° 45' 00" N

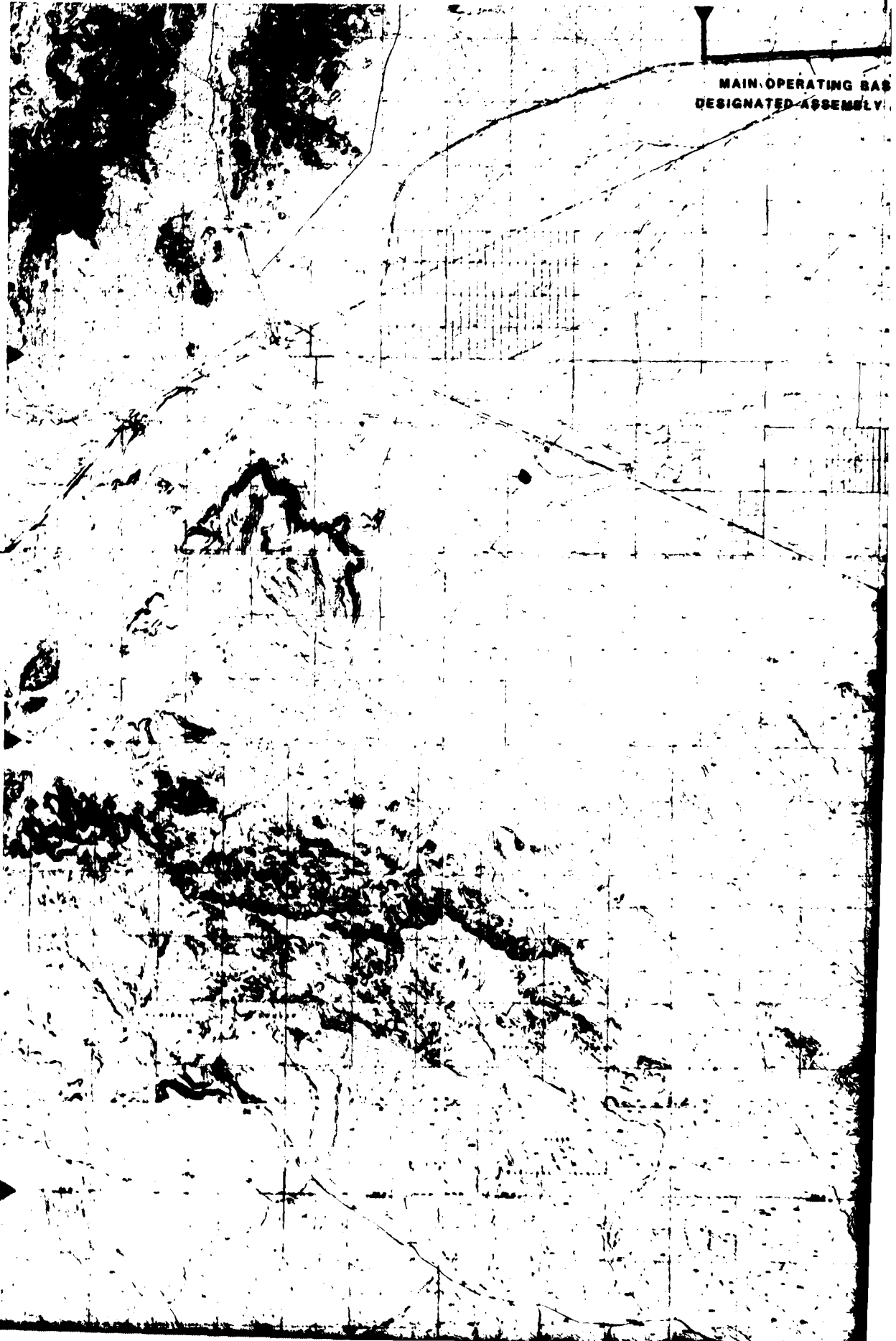
113°

SEE DRAWING

10

113°

MAIN OPERATING BAS
DESIGNATED ASSEMBLY



R17W
113°45'00"W

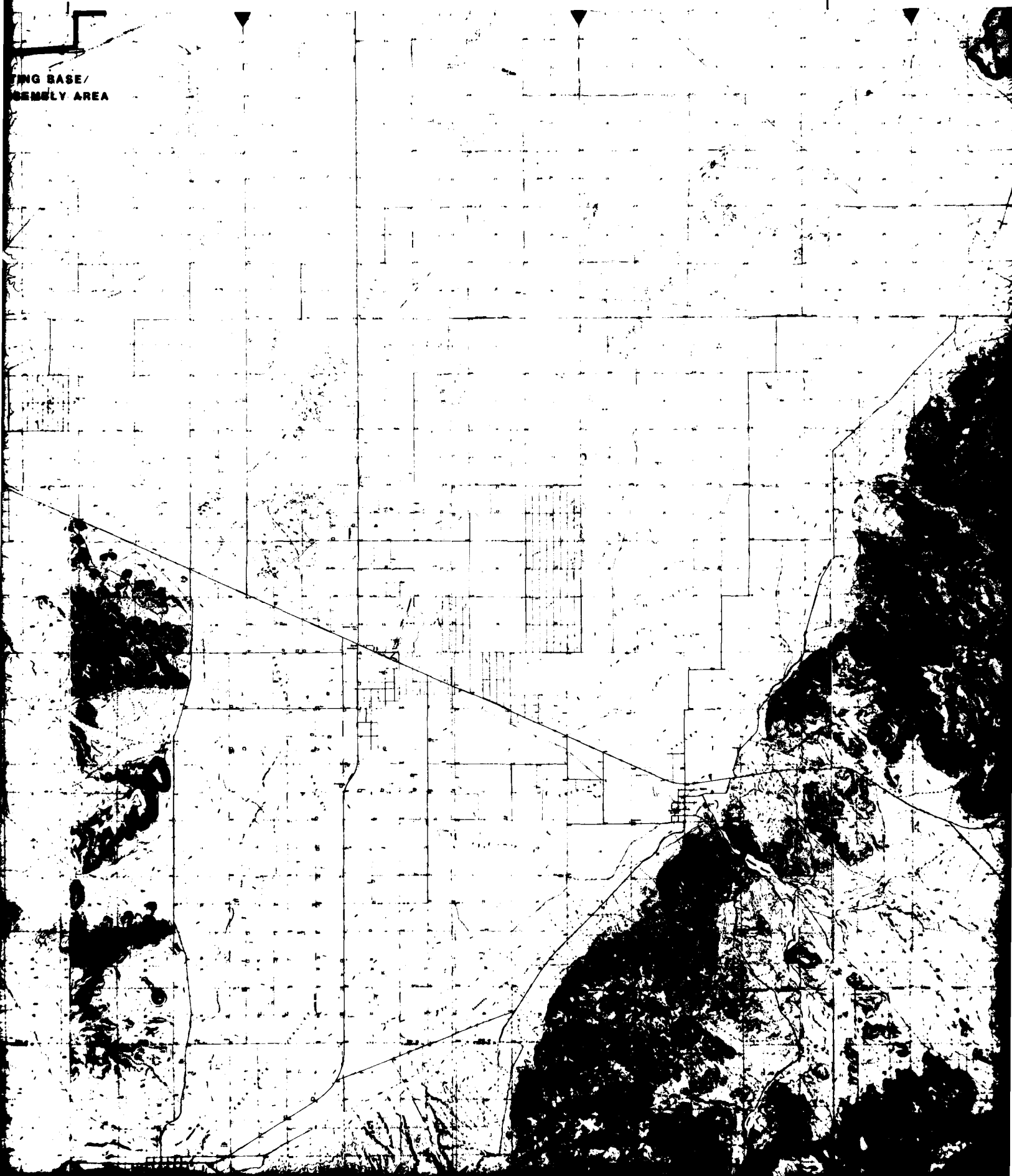
R16W

SEE DRAWING #47

R15W

113°30'00"W

TING BASE/
SEMBLY AREA



R15W

113°30'00"W

R14W

R13W

113°15'00"W

37°52'30"N

1345

37°45'00"N

1355

SEE DRAWING
#57

1365



SEE DRAWING
#38

T36S

T37S

T38S

37°30'00"N

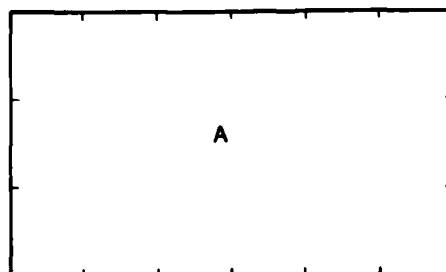
114°00'00"W

R19W

R18W

11

BASE MAP SOURCE INSET



A. 7½ MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

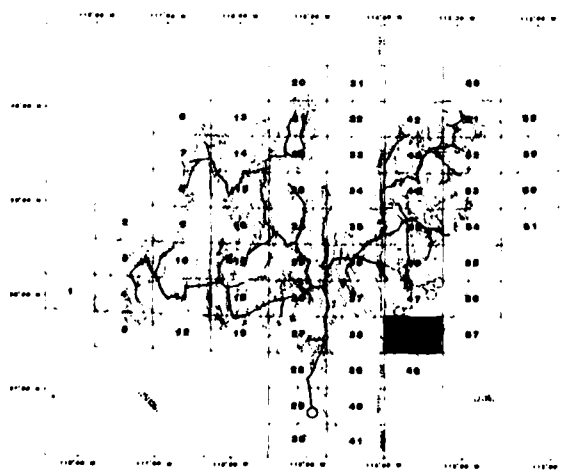
B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



SEE DRAWING # 49



SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:82,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

[illegible]

37°30'00" N

FIGURE 1-14 2 of 2

REVISIONS

USAF BALLISTIC MISSILE OFFICE

114°00'00"W
38°15'00"N

R19W

R18W

R17W
113°45'00"

T30S

T31S

SEE DRAWING
#37

T32S

38°00'00"N



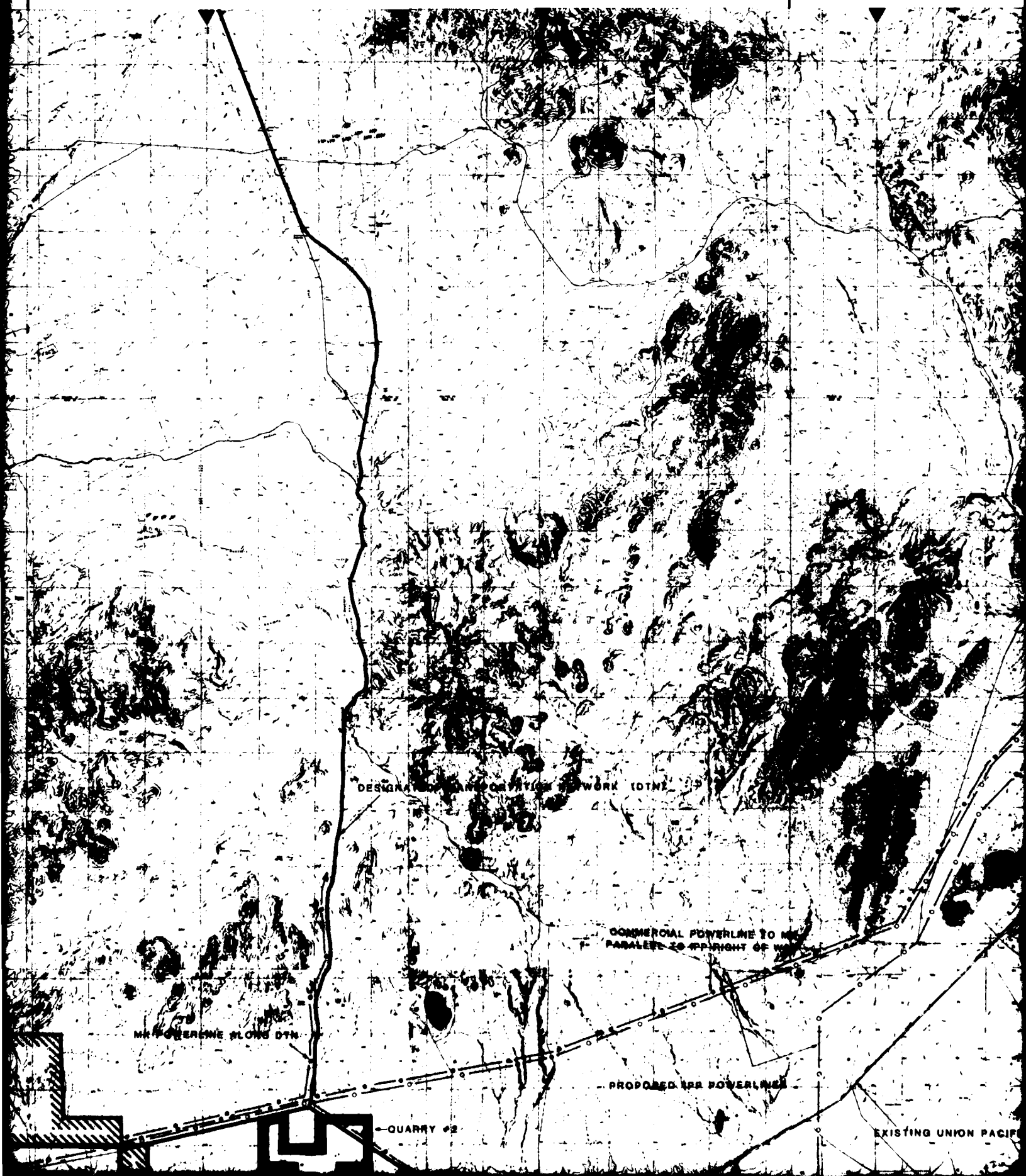
R17W
45'00"W

R16W

SEE DRAWING #46

R15W

113'30'00"W



15W

113°30'00"W

R14W

R13W

113°15'00"W

38°15'00"N

T30S

T31S

SEE DRAWING
#56

T32S

38°00'00"N

EXISTING UNION PACIFIC RAILROAD

SEE DRAWING
#37

T32S

38°00'00"N

T33S

37°52'30"N

114°00'00"W

R19W

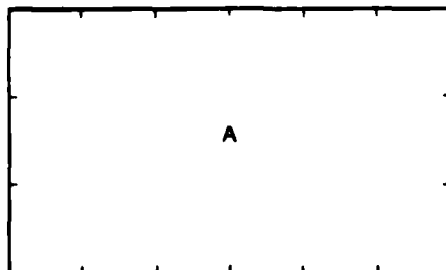
R18W

MAIN OPER
DESIGNATED

BORROW PIT #2

PROPOSED IPP POWERLINE

BASE MAP SOURCE INSET

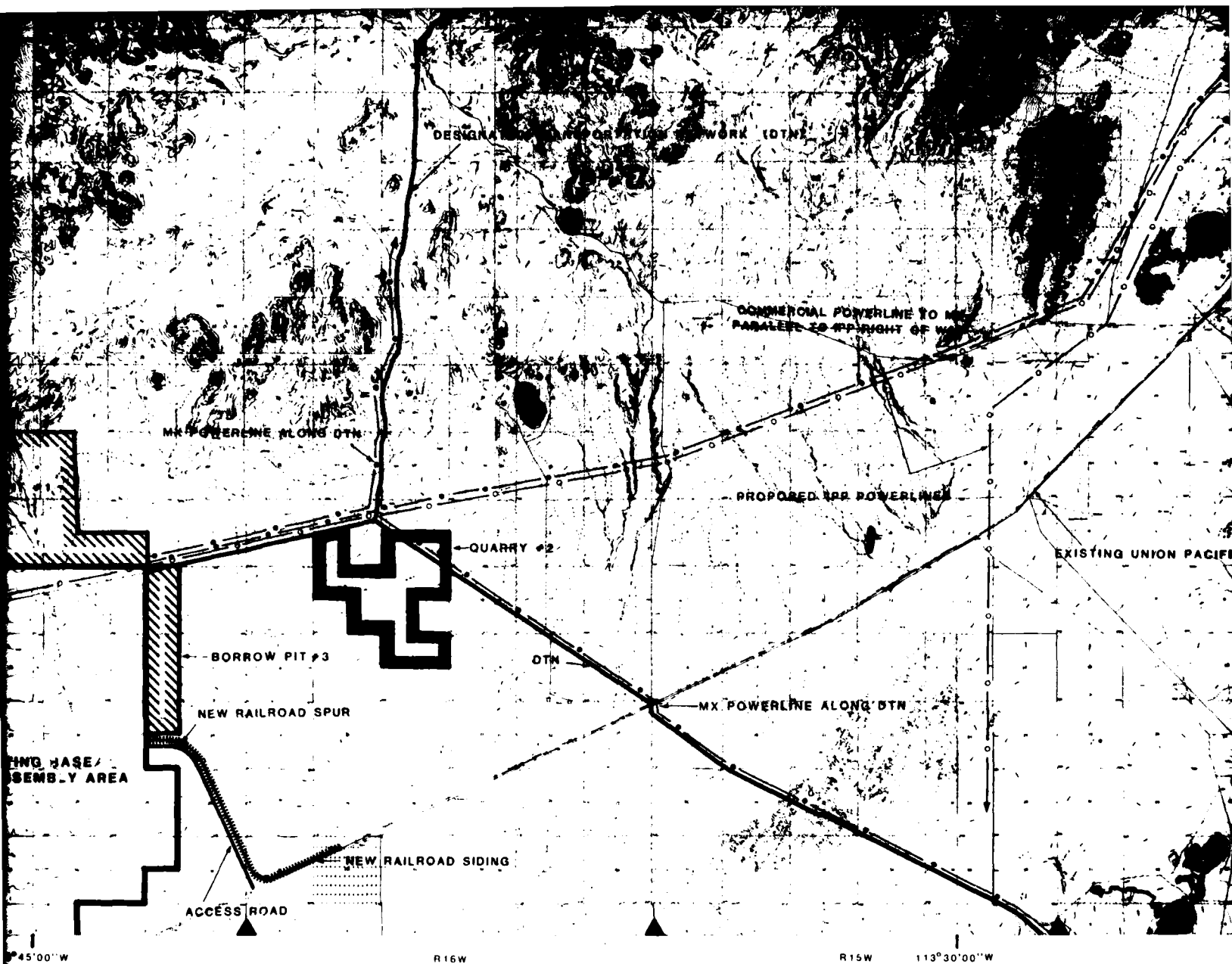


A. 7½ MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

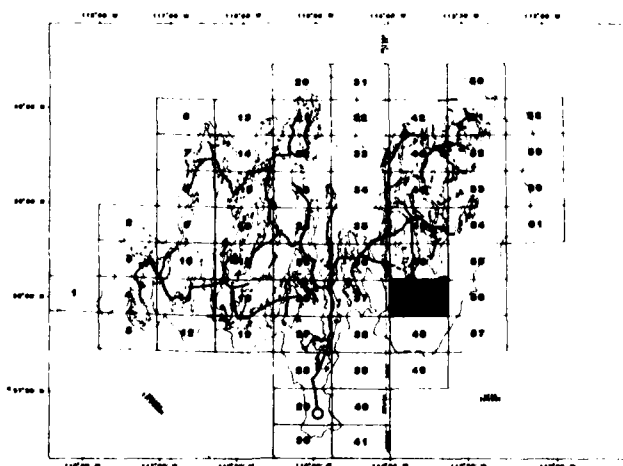
C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



SEE DRAWING #48

MAP SHEET LOCATION



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:62,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/01	CONSTRUCTION, RELEASED-CONSTRUCTION Co. 0
REVISION	DATE	DESCRIPTION
REVISIONS		

114° 00' 00" W
37° 52' 30" N

R19W

R18W

R17W
113 45' 00"

MAIN OPERATING BASE
DESIGNATED ASSEMBLY A

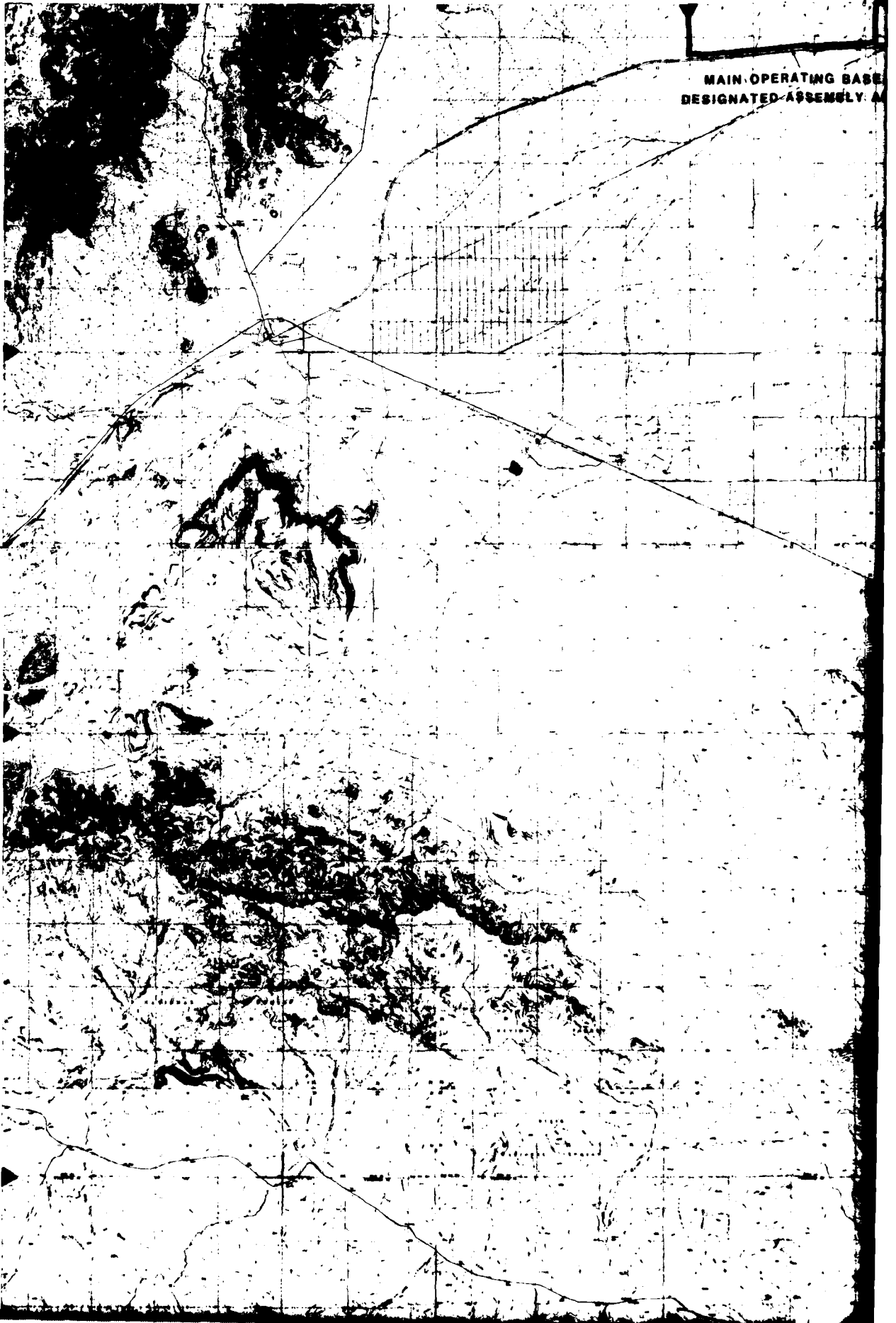
T34S

37° 45' 00"

T35S

SEE DRAWING
#38

T36S



R17W

113°45'00" W

R16W

SEE DRAWING #47

R15W

113°30'00" W

MX PO

OPERATING BASE/
ED-ASSEMBLY AREA

DESIGNATED TRANSPORTATION NETWORK



R15W

113°30'00"W

R14W

R13W

113°15'00"W

37°52'30"N

MX POWER LINE ALONG DTN

DESIGNATED TRANSPORTATION NETWORK (DTN)

OPERATIONAL BASE
TEST SITE/
DESIGNATED
TRAINING AREA

1345

37°45'00"N

1355

SEE DRAWING
57

1365

SEE DRAWING
#38

T36S

T37S

T38S

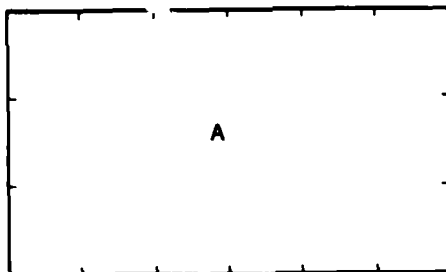
37°30'00"N

114°00'00"W

R19W

R18W

BASE MAP SOURCE INSET



A 7.5 MINUTE TOPOGRAPHIC QUADRANGLE USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE USGS (1:250,000)

D COMPILED BY STEREO PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

37° 30' 00" N

113° 15' 00" W

MODENA, ENTERPRISE

REVISIONS

115°30'00"W

R58E

R59E

115°15'00"

38°15'00"N

T4N

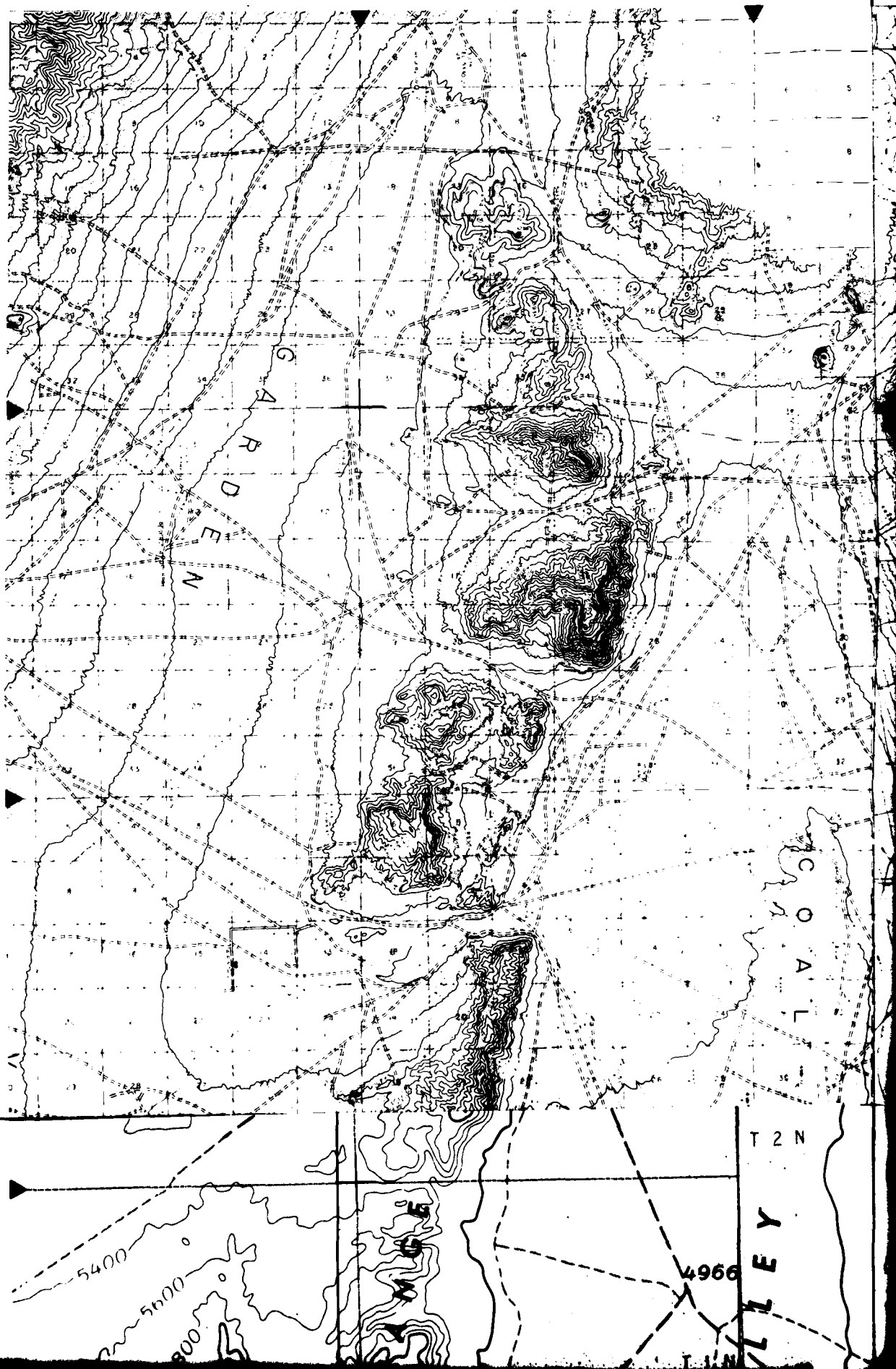
T3N

SEE DRAWING

#18

T2N

38°00'00"N



2

100°W R60E

SEE DRAWING #25
R61E

R62E 115°00'00"W



3

115°00'00"W

R63E

R64E

114°45'00"W

38°15'00"N

T4N

DRY LAKE VALLEY

MATCH TO
MULESHOE VALLEY

TYPICAL CLUSTER ROAD

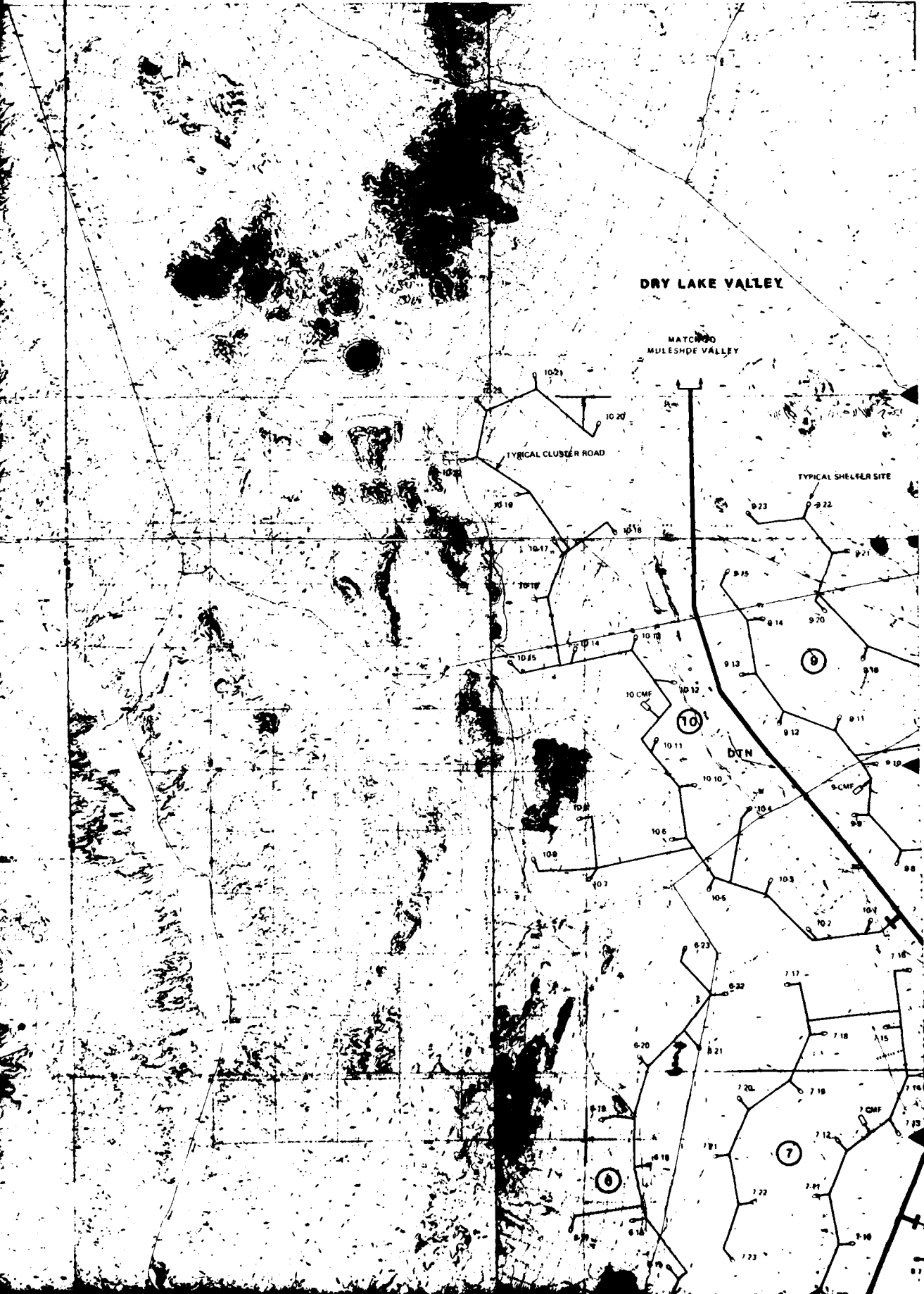
TYPICAL SHELTER SITE

T3N

SEE DRAWING
#37

T2N

38°00'00"N



SEE DRAWING
18

T2N

38°00'00"N

T1N

37°42'30"N

115°00'00"W

R58E

R59E

T2N

T1N

COAL
VALLEY

RANGE

5400

5600

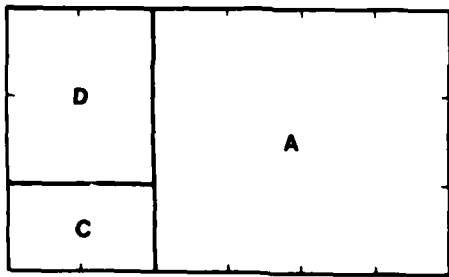
5800

6000

6220

4966

BASE MAP SOURCE INSET

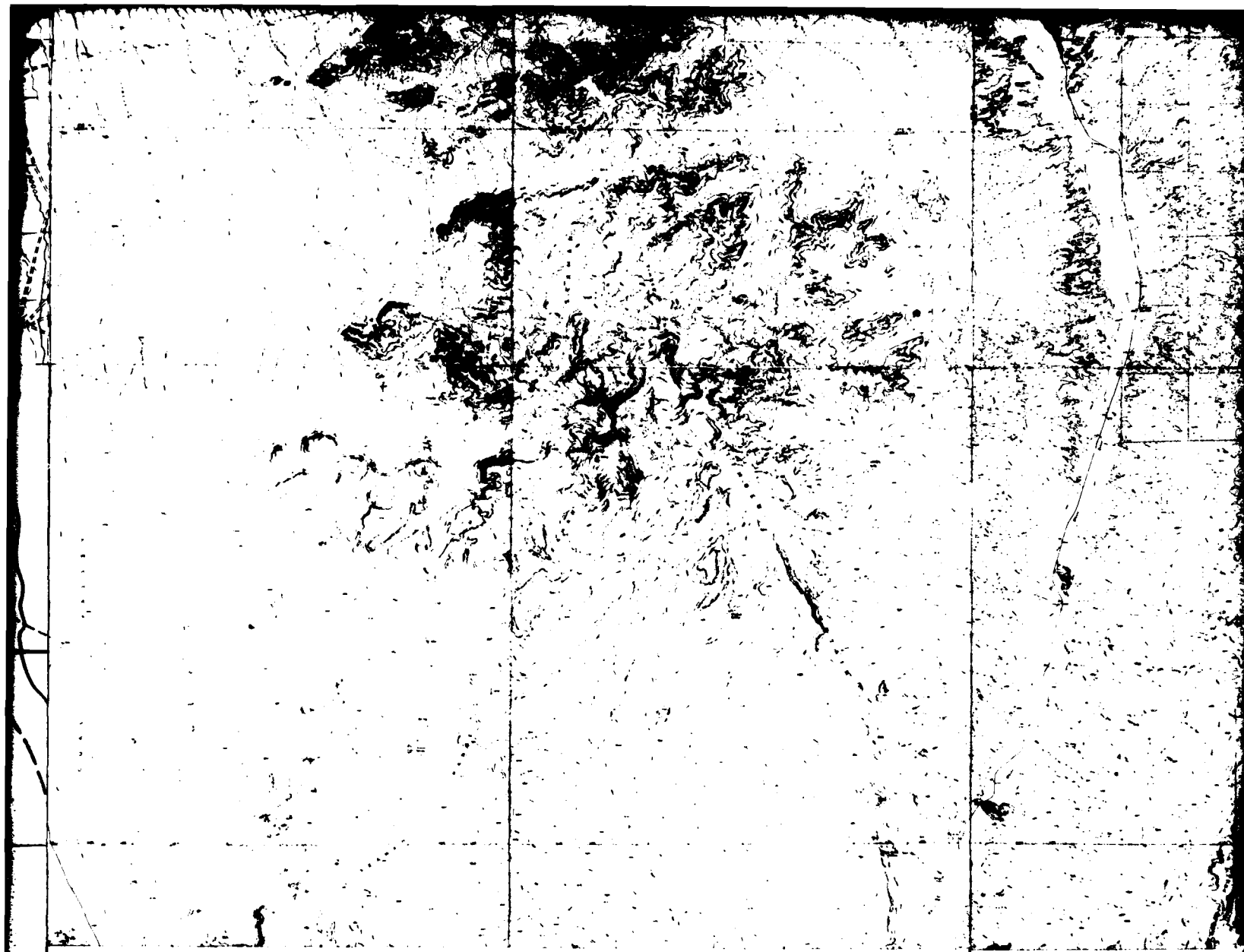


A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

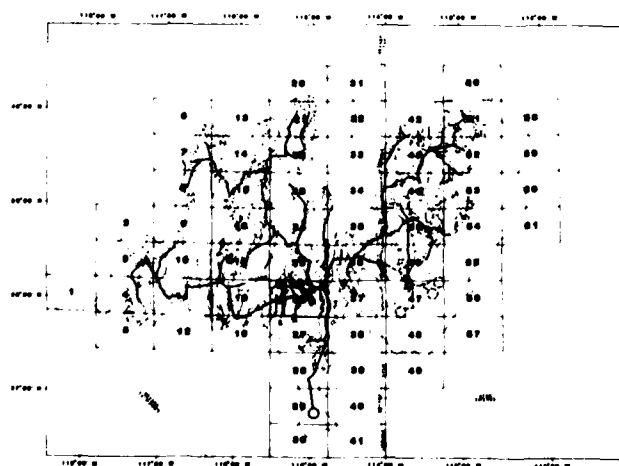
D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



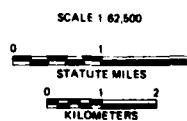
115° 15' 00\"/>

MAP SHEET LOCATION

SEE DRAWING #27

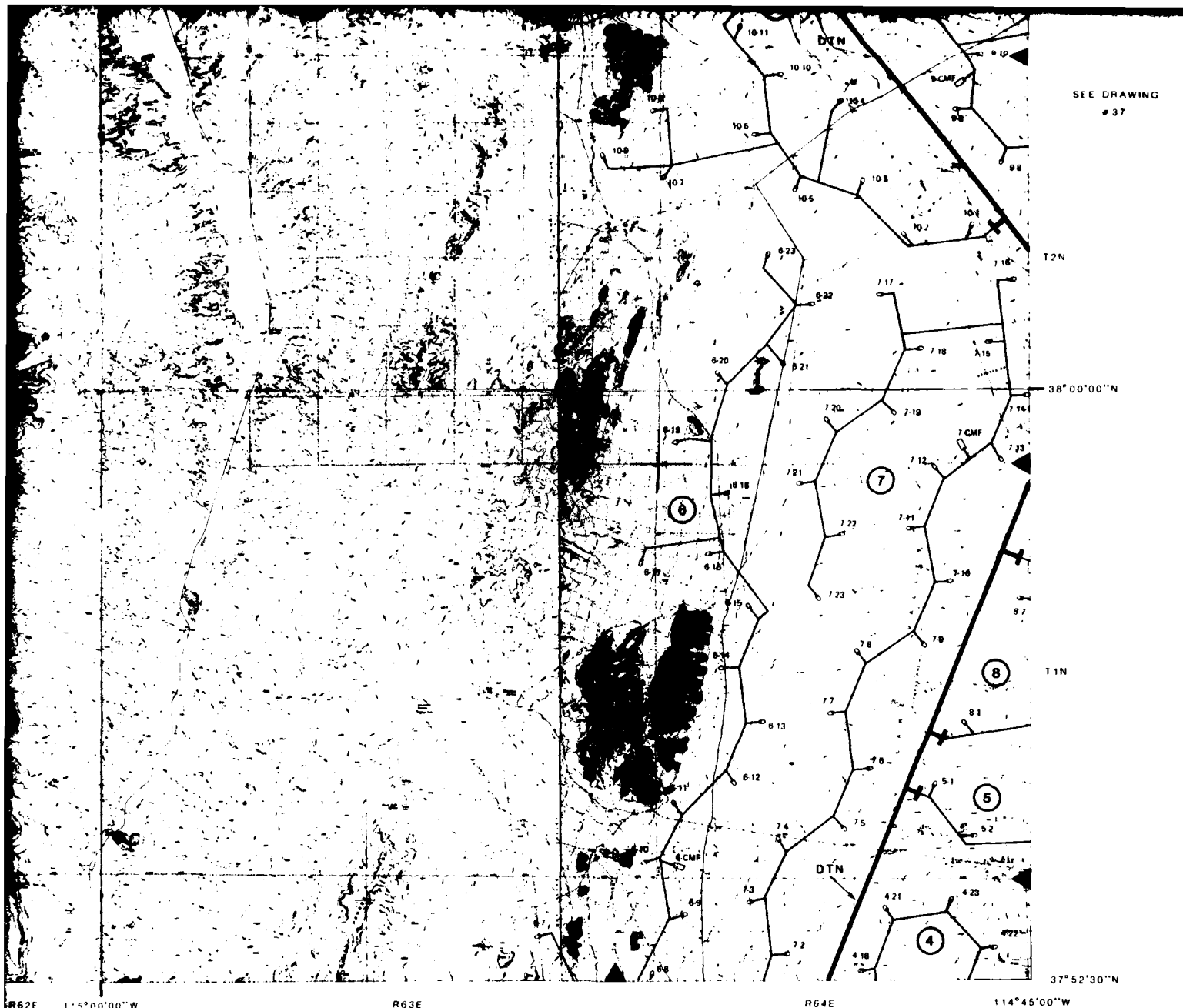


SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/01	REMOVED NOTE
REVISION	DATE	DESCRIPTION
REVISIONS		



SEE DRAWING
37

R62E 115°00'00"W

R63E

R64E

114°45'00"W

PROJECT MAP SHEET

STATE: NEVADA	RAILROADS: NONE
COUNTY: NYE, LINCOLN	STATE ROADS: HWY 38
LOCAL COMMUNITY: NONE	FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE	<p>DRY LAKE VALLEY, NEVADA</p> <p>5200 FOOT 2/3 FILLED HEXAGONAL MPS LAYOUT MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH</p>	<p>APPROVED BY</p> <p>AIR FORCE REGIONAL CIVIL ENGINEER-MX</p>	<p>DATE</p>
DRAWN BY <i>R. Sanders</i>	3/1/61			
CHECKED BY <i>W. H. H. H.</i>	4/1/61			
GEOTECHNICAL <i>W. H. H. H.</i>	7/1/61			
SITING <i>W. H. H. H.</i>	7/1/61			
ENVIRONMENTAL				
SYSTEMS ENGINEER				
CORPS OF ENGINEERS				
APPROVED BY:	USAF BALLISTIC MISSILE OFFICE		SHEET: _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	10/1/61	REMOVED NOTE	<i>W. H. H. H.</i>	7-61
REVISIONS				

115°30'00"W
37°52'30"N

R58E

R59E

T1S

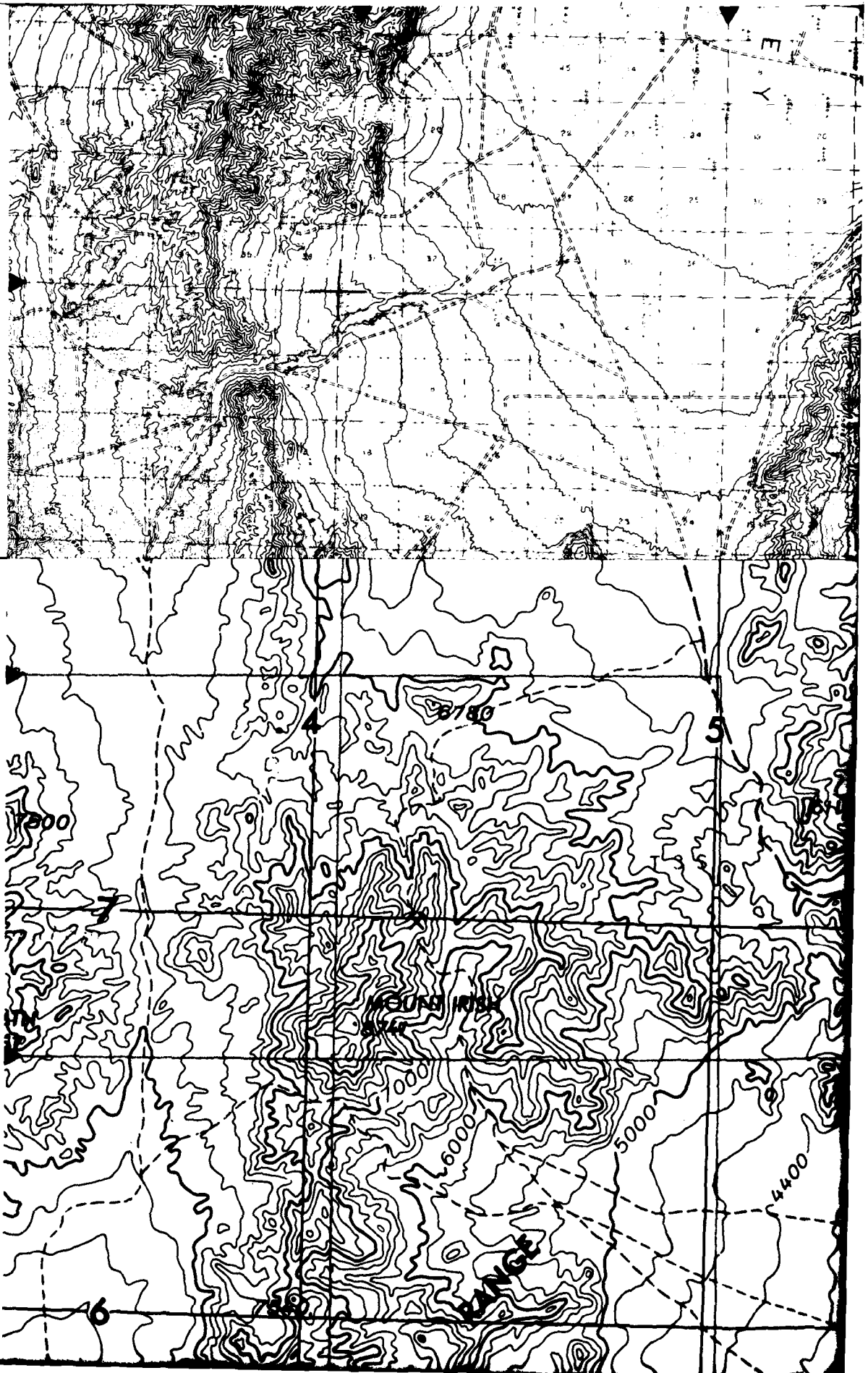
T2S

37°45'00"N

SEE DRAWING
19

T3S

T4S



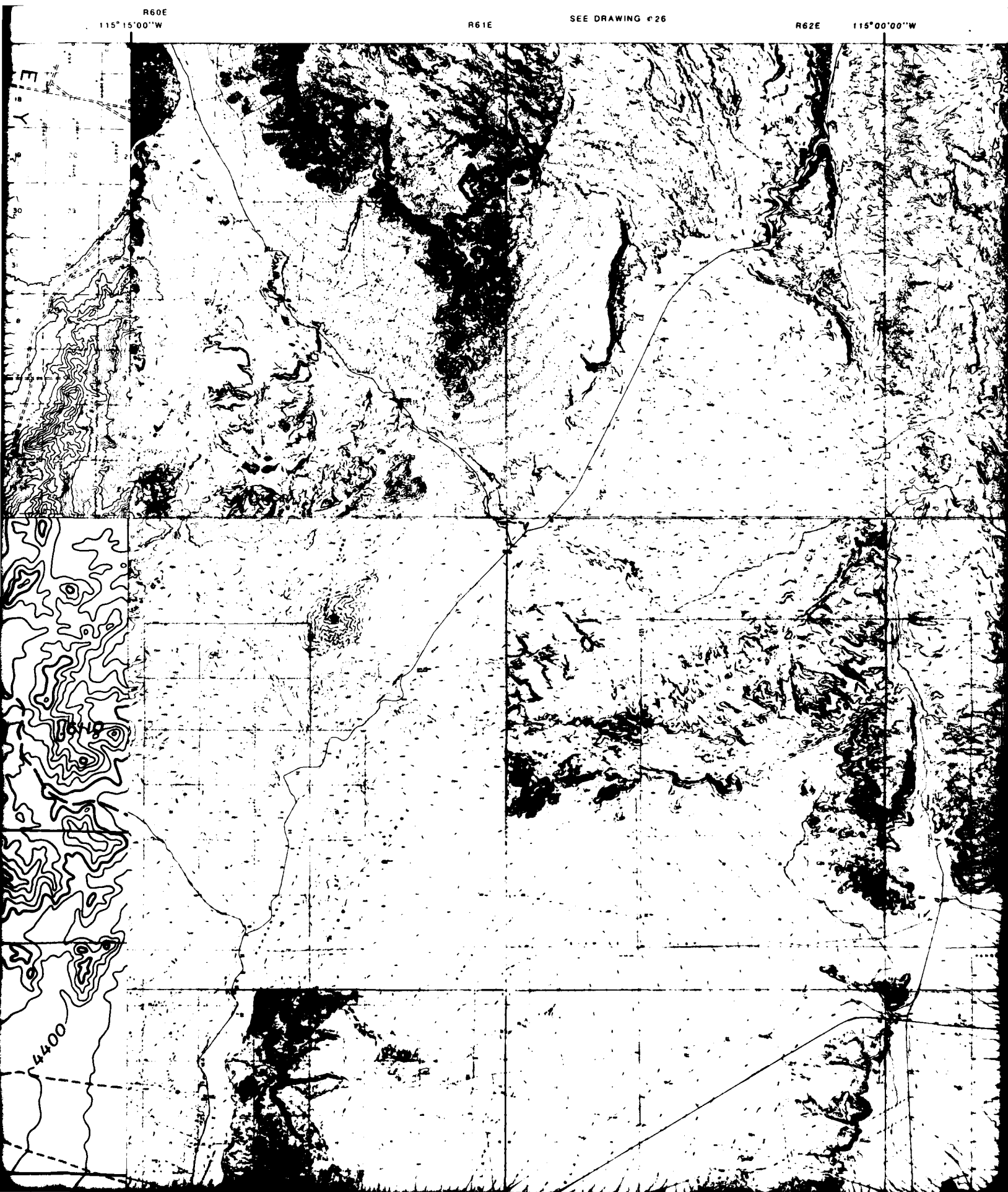
R60E
115° 15' 00" W

R61E

SEE DRAWING #26

R62E

115° 00' 00" W



R62E

115°00'00"W

R63E

R64E

114°45'00"W

37°52'30"N

T1S

T2S

37°45'00"N

SEE DRAWING
#38

T3S

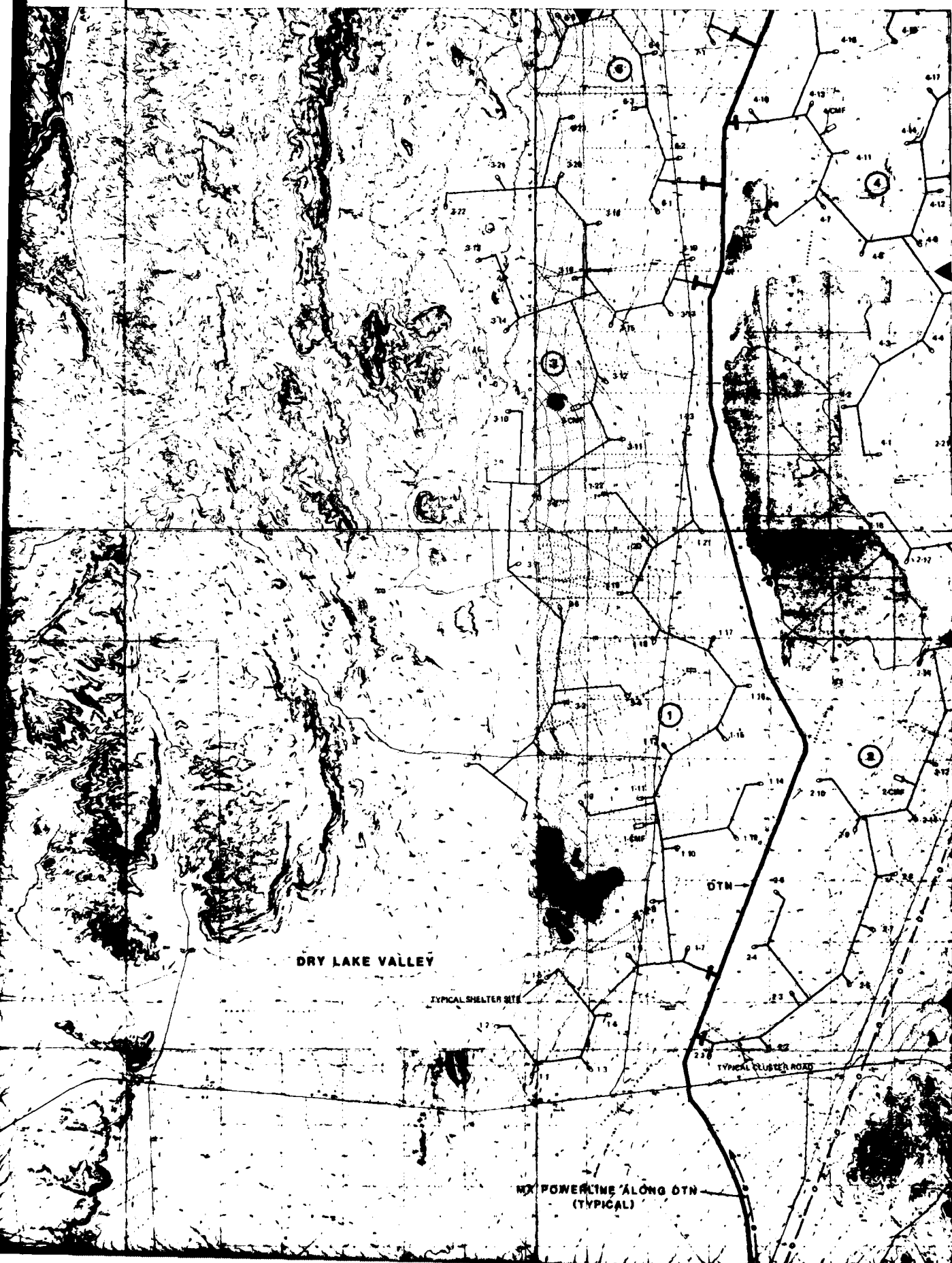
T4S

DRY LAKE VALLEY

TYPICAL SHELTER SITE

DTM

TYPICAL CLUSTER ROAD

MX POWERLINE ALONG DTM
(TYPICAL)

SEE DRAWING
19

T3S

T4S

T5S

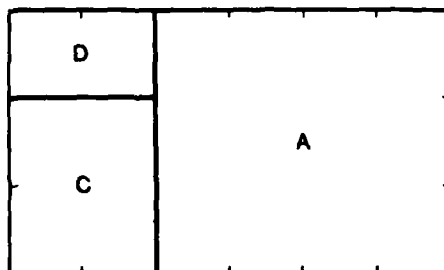
37°30'00"N

115°30'00"W

R58E

R59E

BASE MAP SOURCE INSET

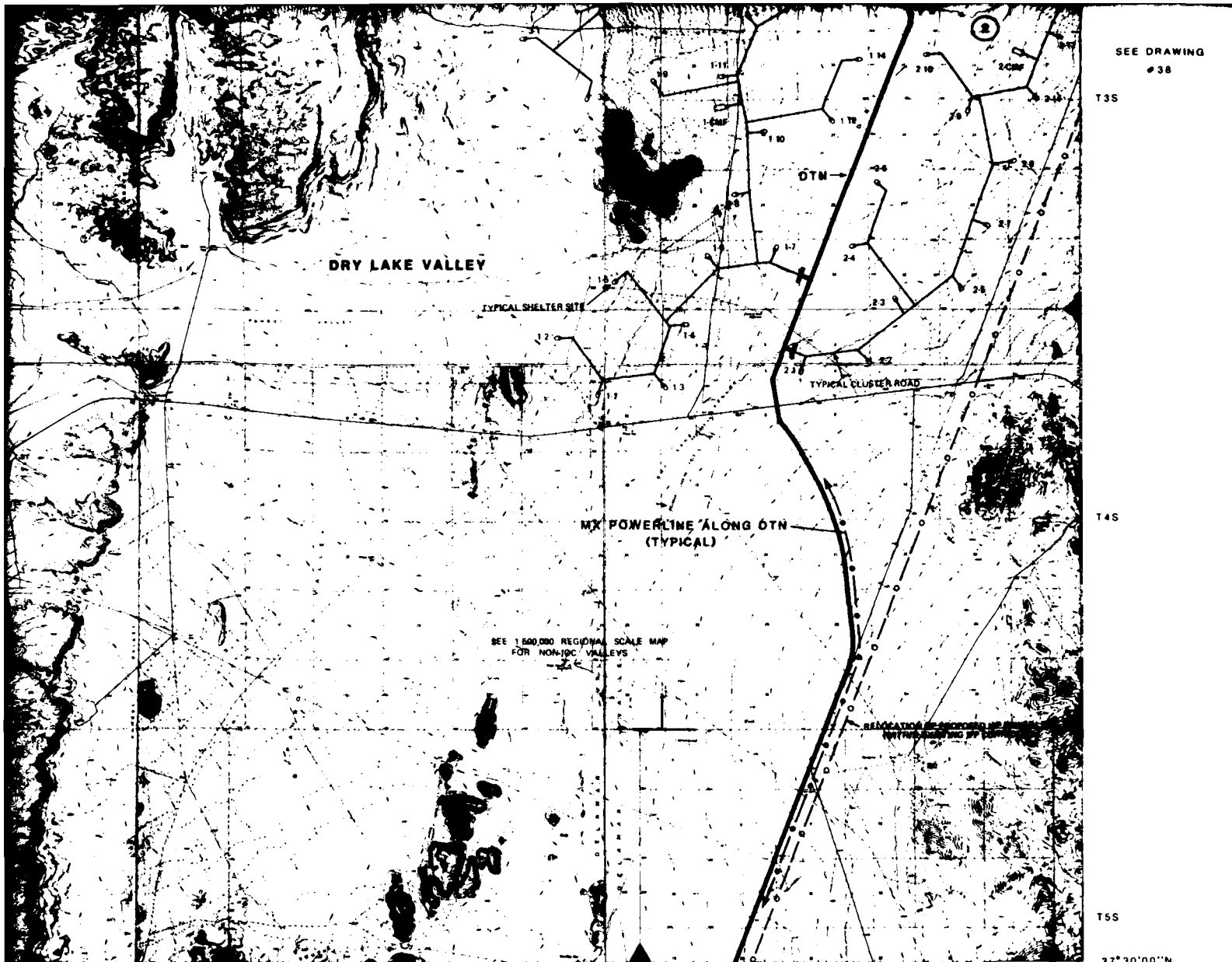


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



R62E 115°00'00"W

R63E

R64E

114°45'00"W

37°30'00"N

PROJECT MAP SHEET

STATE: NEVADA	RAILROADS: NONE
COUNTY: LINCOLN	STATE ROADS: HWYS 38, 25
LOCAL COMMUNITY: NONE	FEDERAL ROADS: HWY 93

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY: <i>[Signature]</i>	9/17/61
CHECKED BY: <i>[Signature]</i>	9/17/61
GEOTECHNICAL: <i>[Signature]</i>	9/17/61
SITE: <i>[Signature]</i>	9/17/61
ENVIRONMENTAL:	

DRY LAKE VALLEY, NEVADA

5200 FOOT 2/3 FILLED HEXAGONAL MPS LAYOUT
MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER:	APPROVED BY:	DATE
CORPS OF ENGINEERS:	AIR FORCE REGIONAL CIVIL ENGINEER-MX	
APPROVED BY:	DRAWING NUMBER: 27	REV
USAF BALLISTIC MISSILE OFFICE	SHEET _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE

REVISIONS

E-TF-40-111

114°45'00"W
38°15'00"N

R65E

R66E

114°30'00"W

T4N

T3N

DRY LAKE VALLEY

SEE DRAWING
#26

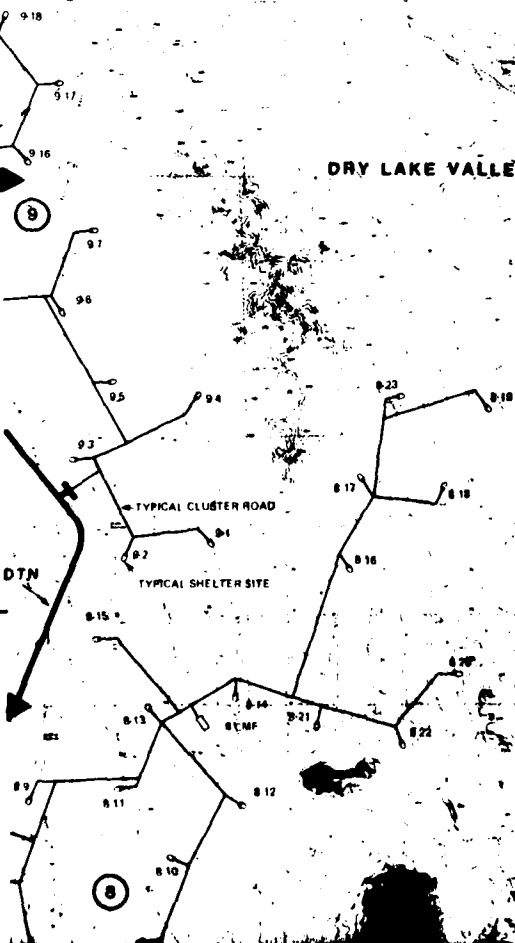
T2N

DTN

38°00'00"N

TYPICAL CLUSTER ROAD

TYPICAL SHELTER SITE



114°30'00"W

R67E

SEE DRAWING #36
R68E

R69E



R69E

R70E

R71E

R20W

114 00'00"W

38° 15'00"N

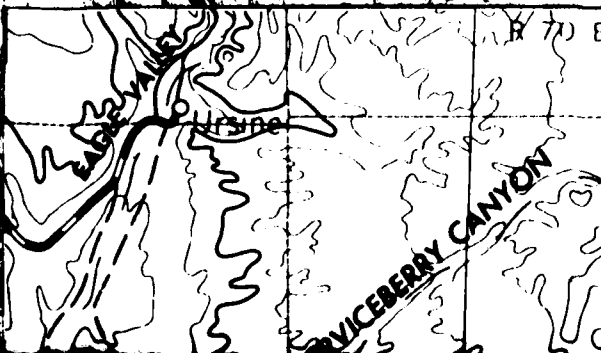
1308

1315

SEE DRAWING
#47

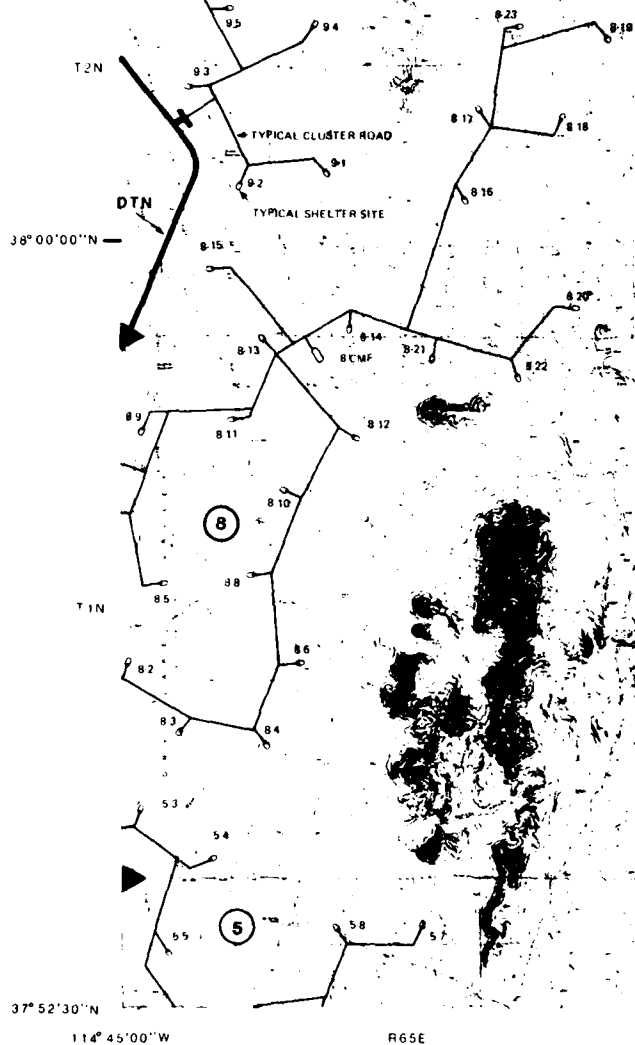
1325

38° 00'00"N

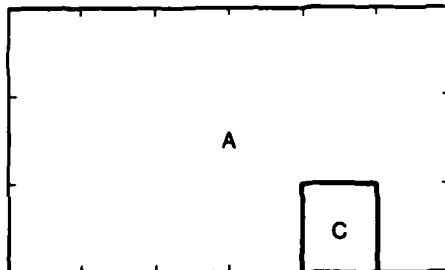


DRY LAKE VALLEY

SEE DRAWING
26



BASE MAP SOURCE INSET



A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

[illegible]

37°52'30" N

114° 00' 00" W

SHEET _____ OF _____

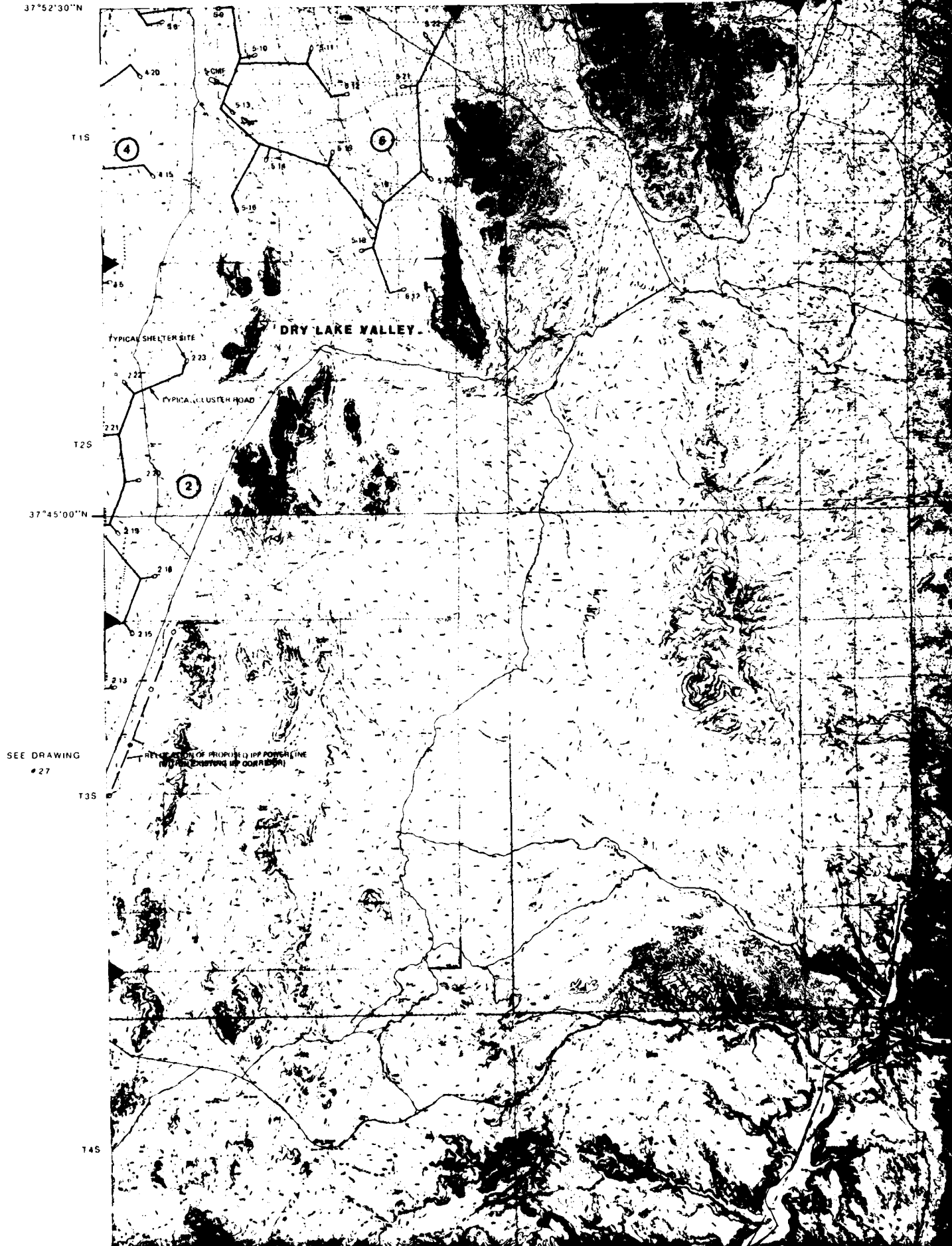
REVISIONS

114°45'00"W
37°52'30"N

R65E

R66E

114°30'00"W



SEE DRAWING
27

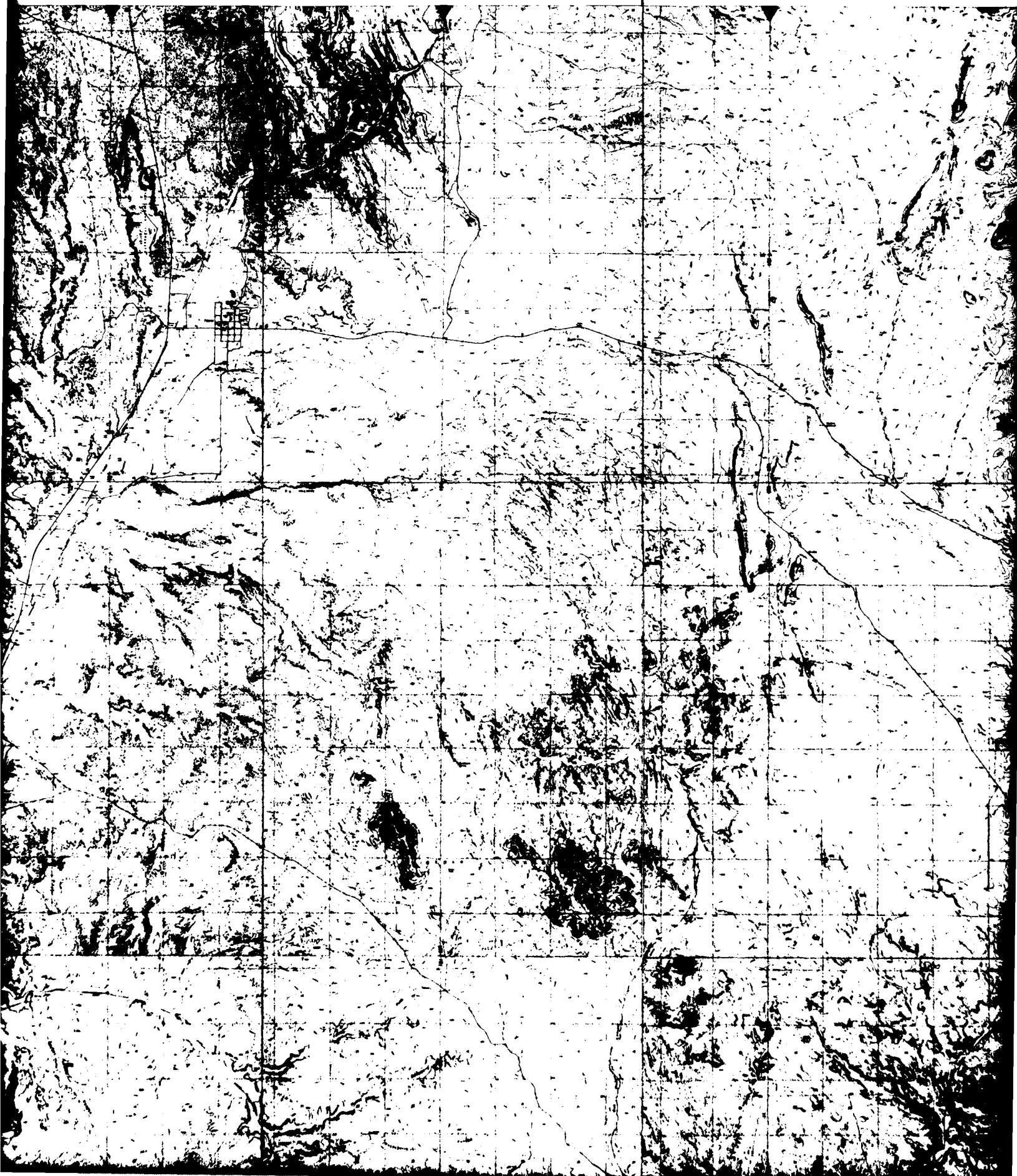
T45

R68E

SEE DRAWING #37

114°15'00"W

R70E



114°15'00"W

R70E

R71E

R20W

114°00'00"W

37°52'30"N

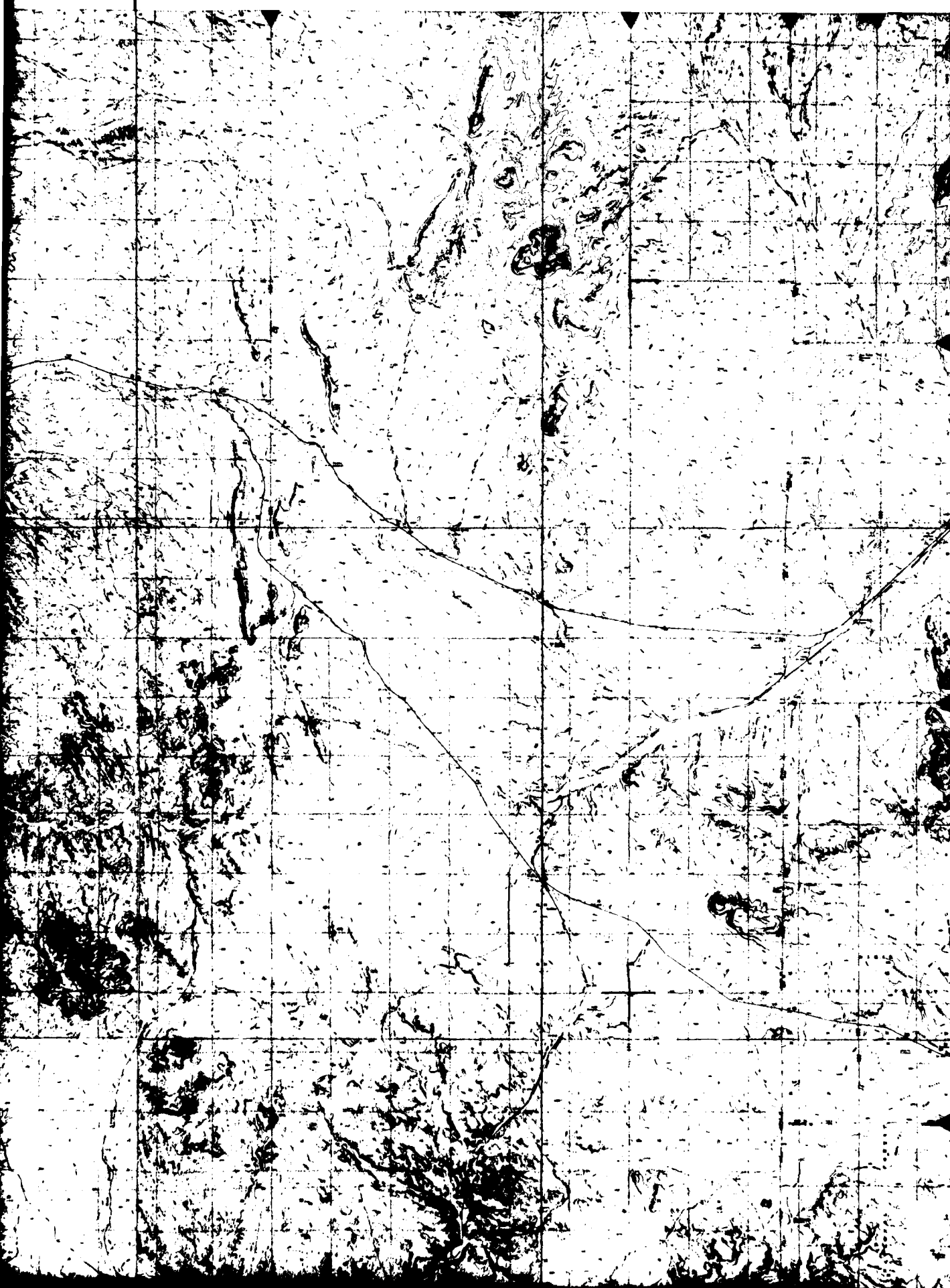
T34S

T35S

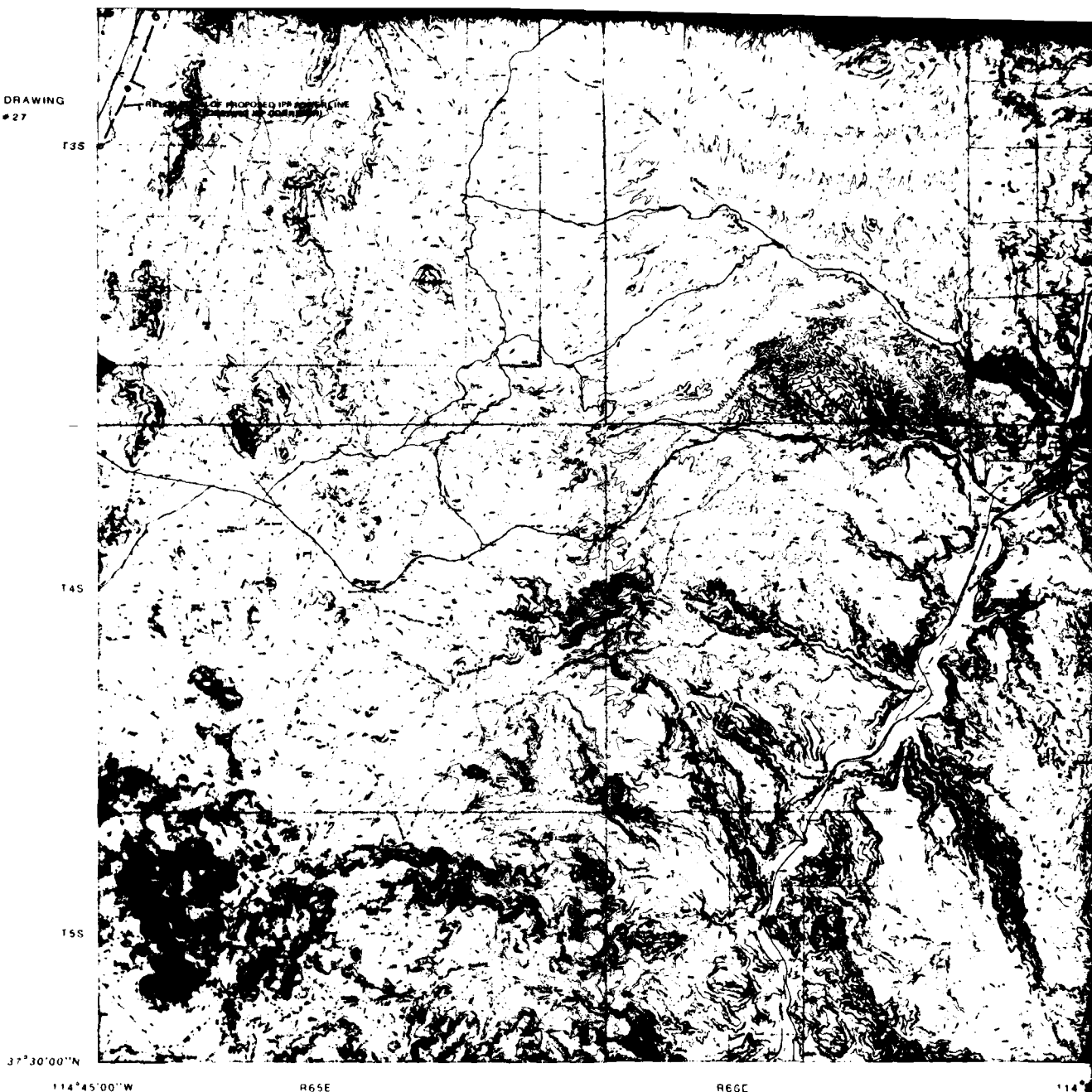
37°45'00"N

SEE DRAWING
#48

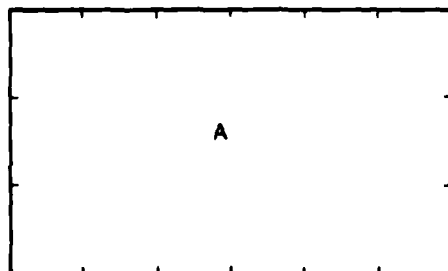
T36S



SEE DRAWING
#27



BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

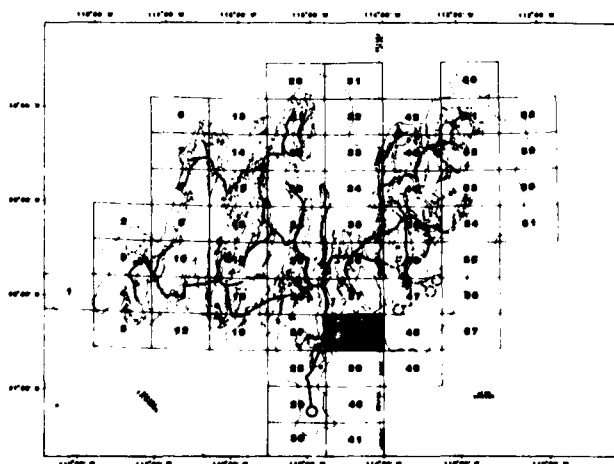
B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

114°15'00"W

SEE DRAWING • 39



NORTH

SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1 62,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	00000	0000000000
REVISION	DATE	DESCRIPTION
		REV

114°00'00"W R19W

R18W

R17
113°45'

39°00'00"N

T21S

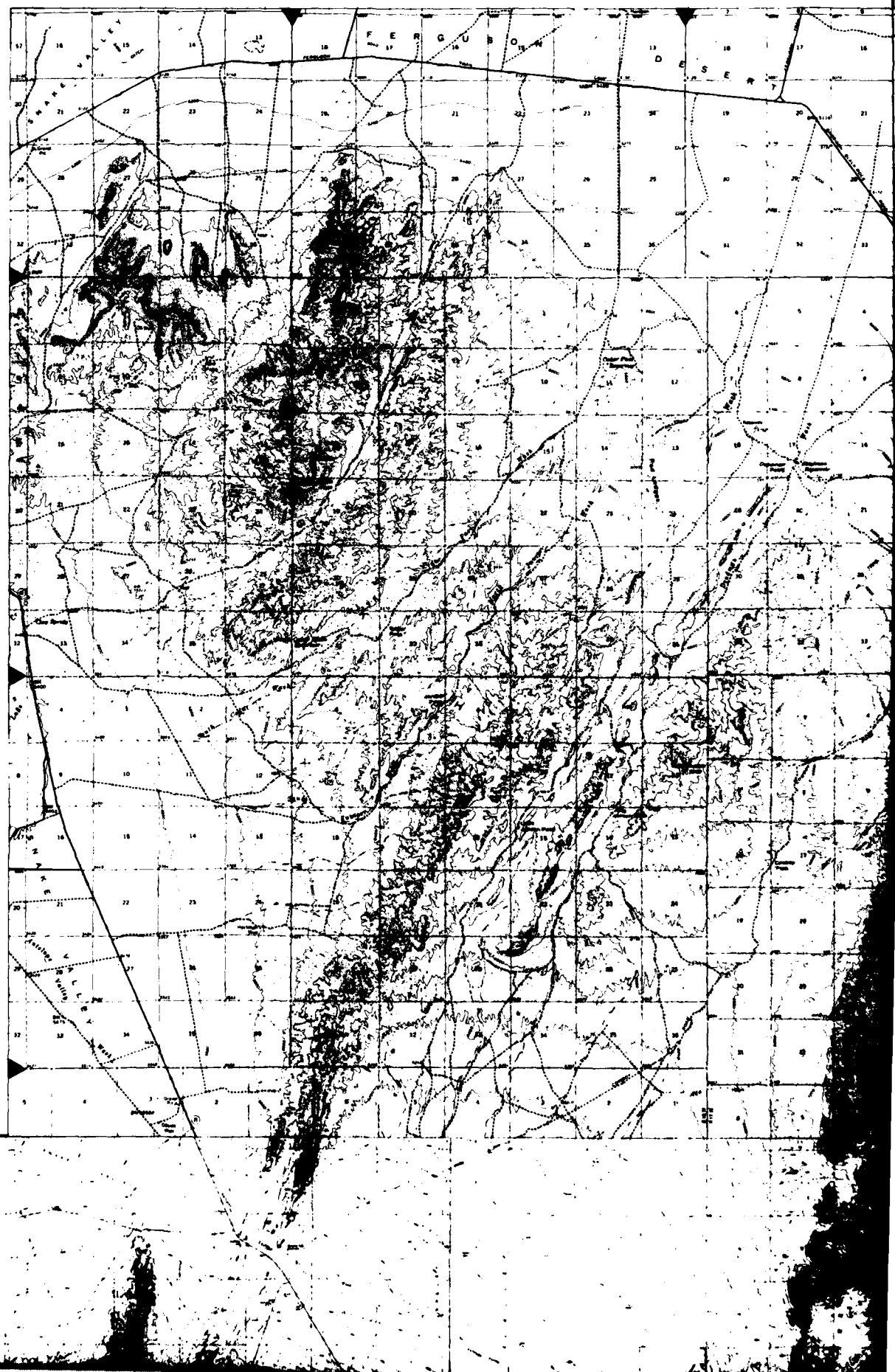
T22S

SEE DRAWING #35

T23S

38°45'00"N

T24S



R17W
113°45'00"W

R16W

SEE DRAWING #44

R15W

113°30'00"W



15W

113°30'00"W

R14W

R13W

113°15'00"W

39°00'00"N

T21S

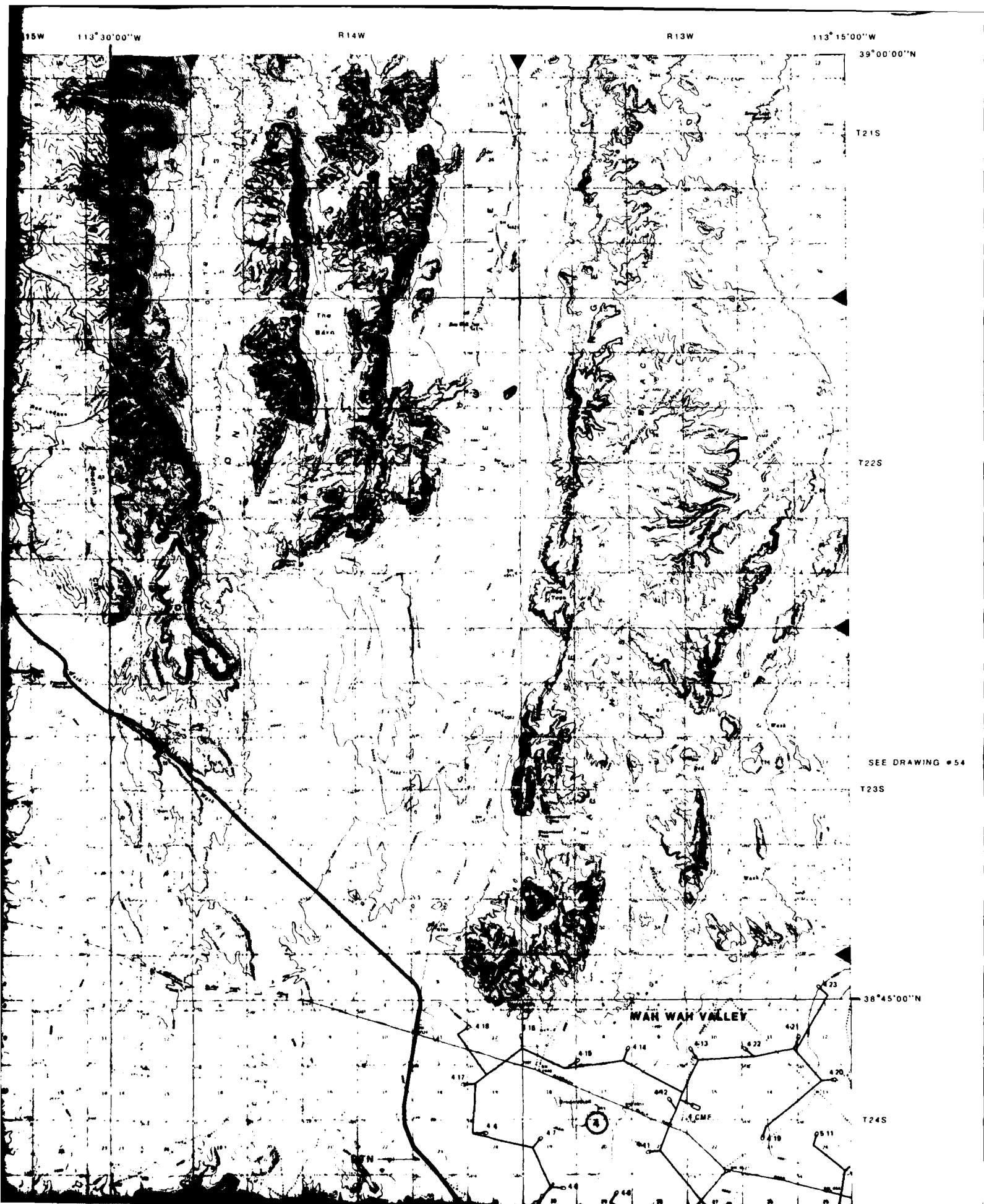
T22S

SEE DRAWING #54

T23S

38°45'00"N

T24S



SEE DRAWING #35

T23S

38°45'00"N

T24S

T25S

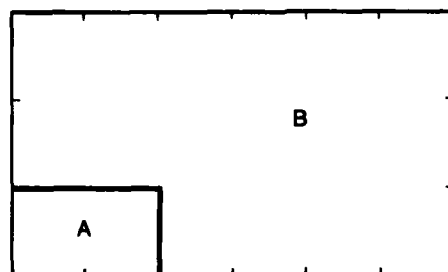
38°37'30"N

114°00'00"W

R19W

R18W

BASE MAP SOURCE INSET



A 7½ MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETR/CS)
AT 1:62,500

SEE DRAWING #54

T23S

38°45'00"N

T24S

T25S

38°37'30"N

R15W 113°30'00"W

R14W

R13W

113°15'00"W

PROJECT MAP SHEET

STATE: UTAH

RAILROADS: NONE

COUNTY: MILLARD

STATE ROADS: HWY 21

LOCAL COMMUNITY: NONE

FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE DATE

DRAWN BY *E. H. H. H.* 9/1/81CHECKED BY *Chapman* 9/1/81GEOTECHNICAL *Black Mader* 9/1/81SITING *Chapman* 7/1/81

ENVIRONMENTAL

SYSTEMS ENGINEER

CORPS OF ENGINEERS

PINE AND WAH WAH VALLEYS, UTAH

5200 FOOT 2/3 FILLED HEXAGONAL MPS LAYOUT
MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

APPROVED BY

DATE

AIR FORCE REGIONAL CIVIL ENGINEER-MX

APPROVED BY

DRAWING NUMBER 45

REV

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

REVISION

DATE

DESCRIPTION

SIGNATURE

DATE

REVISIONS

Chapman 10/1/81

114°00'00"W

R19W

R18W

38°37'30"N

T25S

T26S

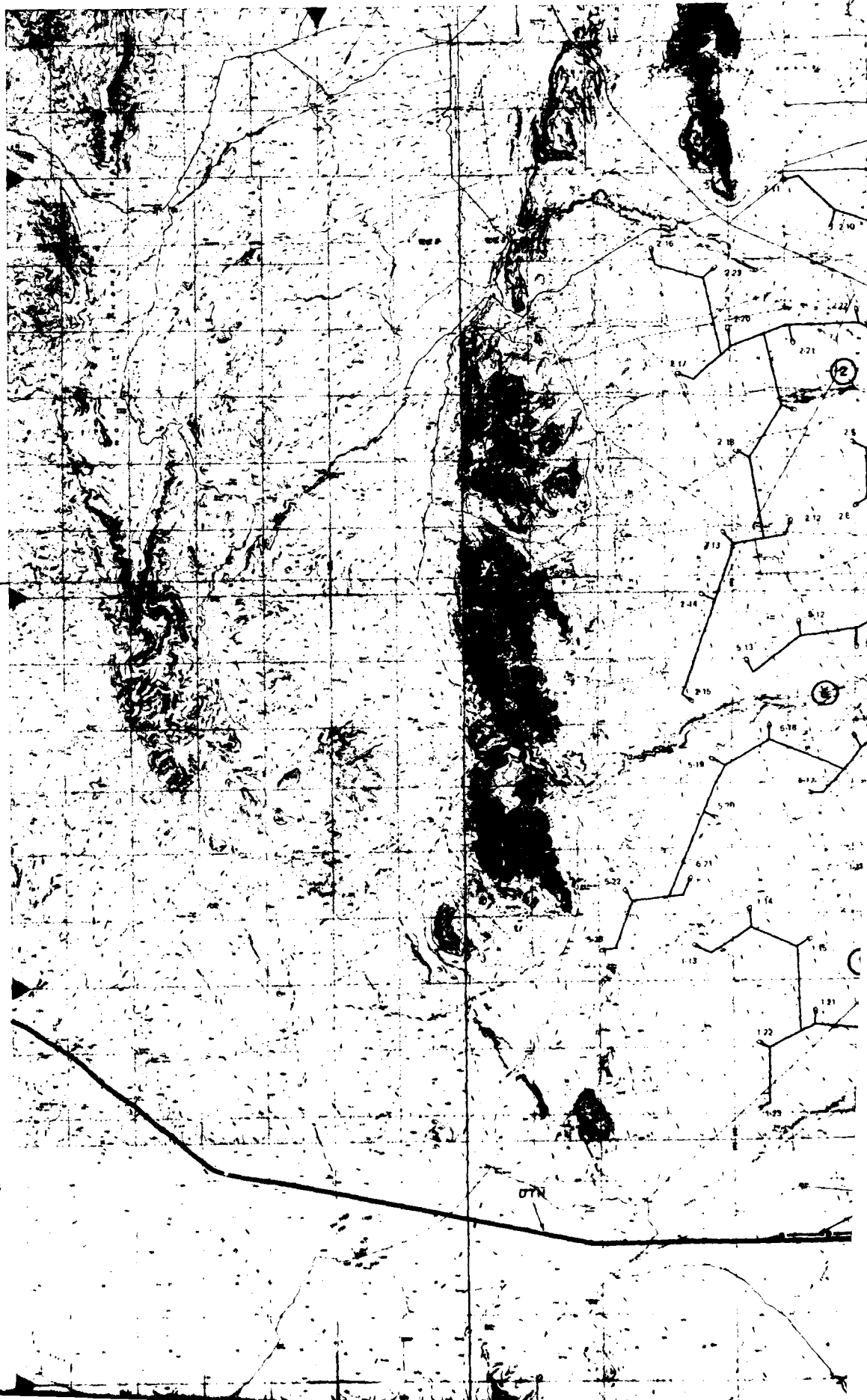
38°30'00"N

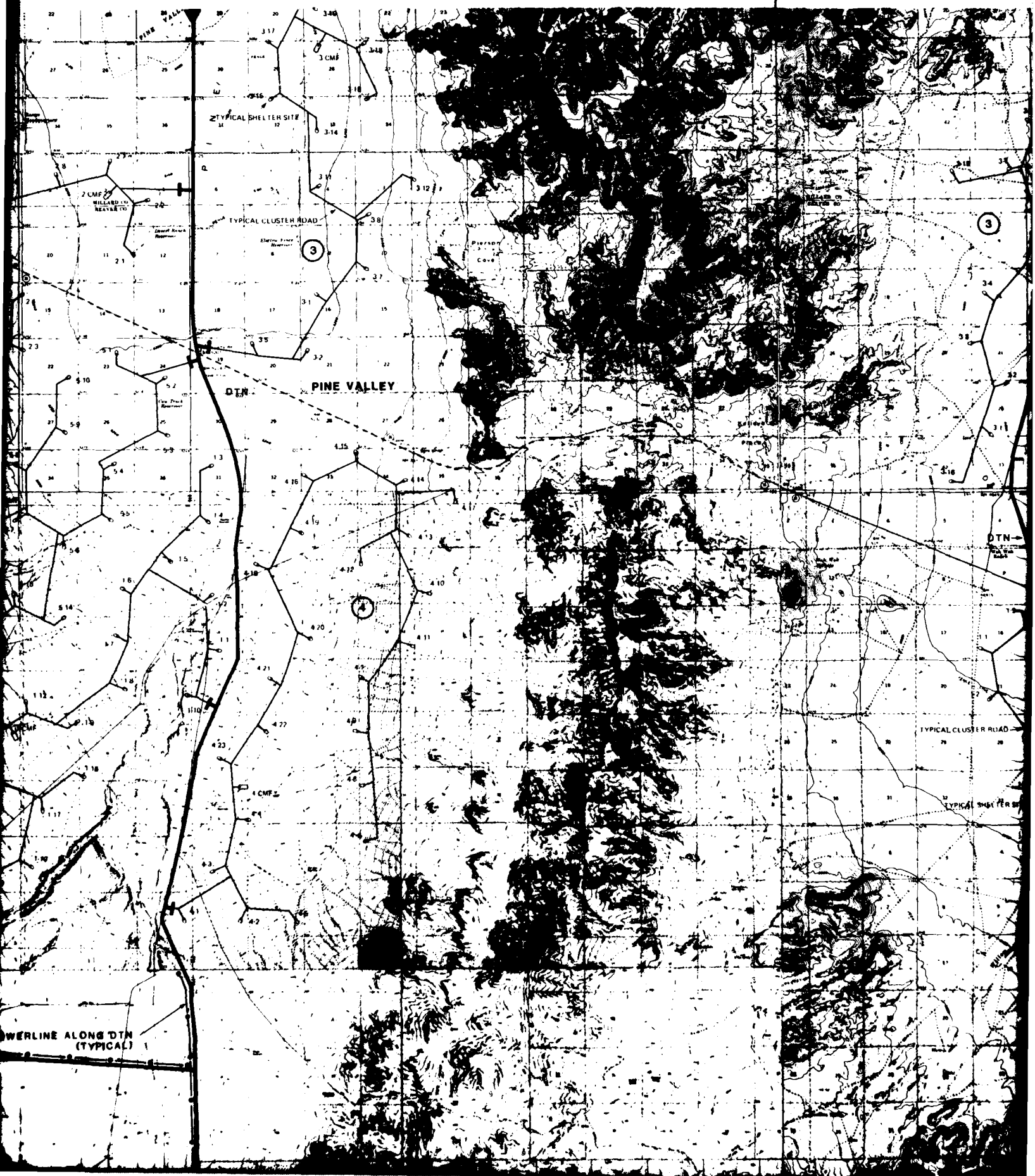
T27S

SEE DRAWING
#36

T28S

07N





18W

113° 30' 00" W

R14W

R13W

113° 15' 00" W

38° 37' 30" N

T25S

T26S

38° 30' 00" N

T27S

SEE DRAWING
#55

T28S

DTN

WAH WAH VALLEY

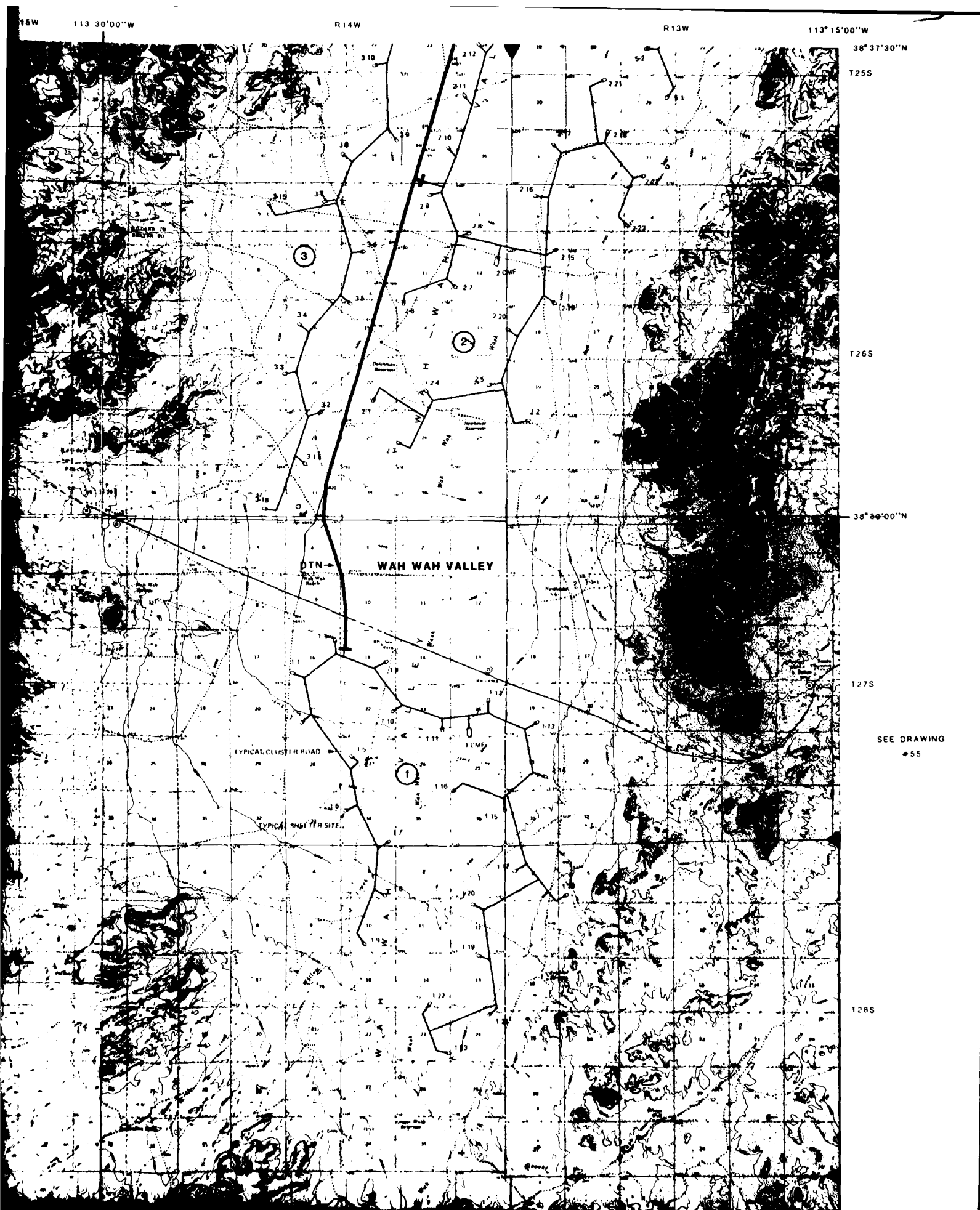
TYPICAL CLUSTER ROAD

TYPICAL TRAIL SITE

3

2

1



T27S

SEE DRAWING
#36

T28S

T29S

38°15'00"N

114°00'00"W

R19W

R18W

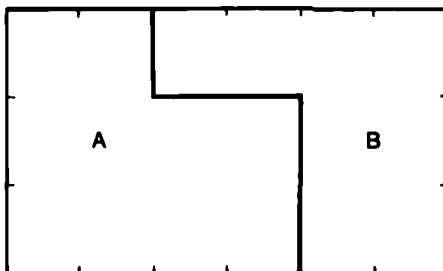
113°45'00"W

R17W

DTN

MX POWERLIN

BASE MAP SOURCE INSET



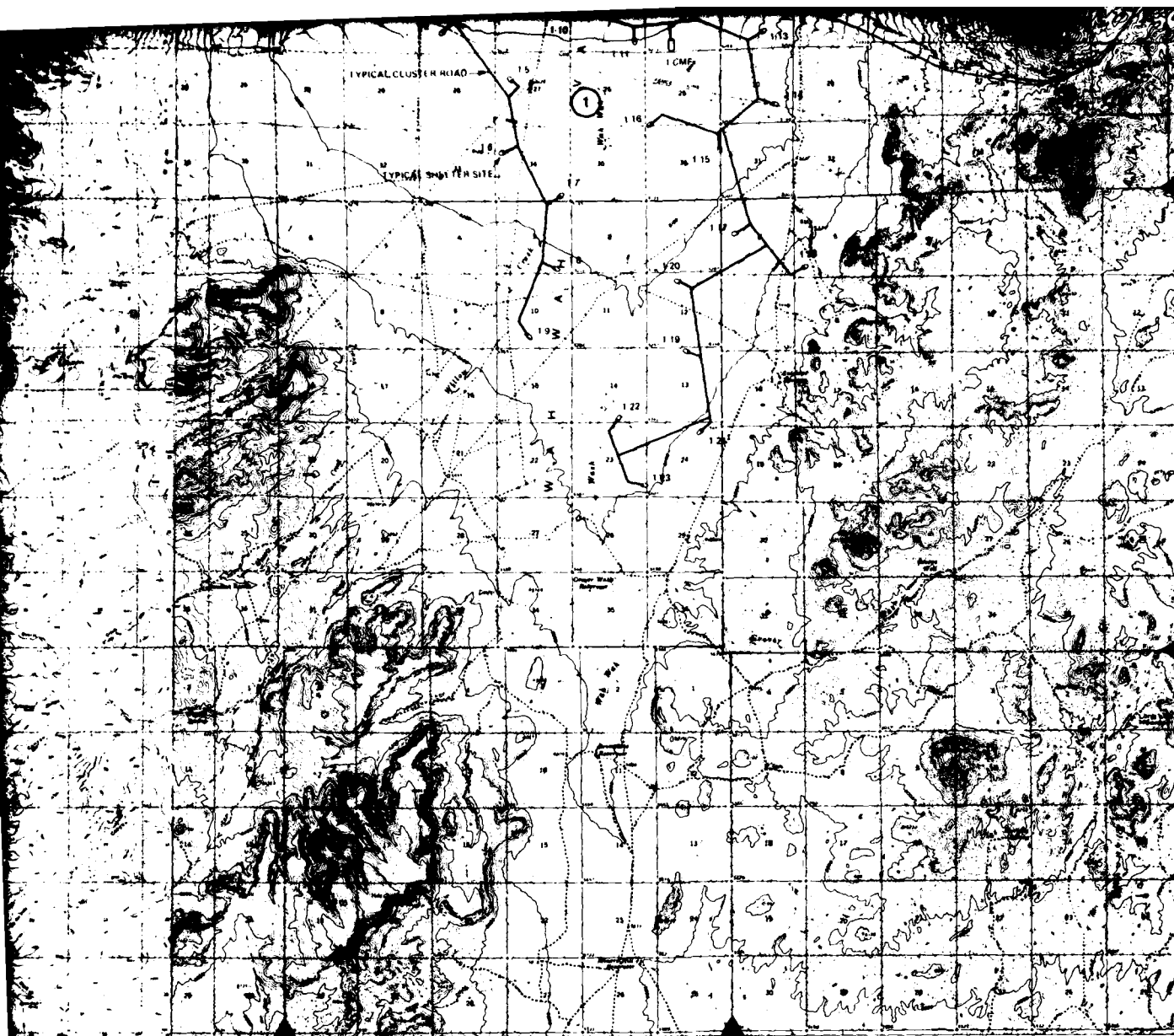
A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

SEE DRAWING
#55



T285

T295

38° 15' 00" N

R15W 113° 30' 00" W

R14W

R13W

113° 15' 00" W

PROJECT MAP SHEET

STATE: UTAH	RAILROADS: NONE
COUNTY: MILLARD, DEAEVER	STATE ROADS: HWY 21
LOCAL COMMUNITY: NONE	FEDERAL ROADS: NONE

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE
DRAWN BY: *[Signature]*
CHECKED BY: *[Signature]*
GEOTECHNICAL: *[Signature]*
ENVIRONMENTAL: *[Signature]*

DATE
1/19/81
1/19/81
1/19/81

PINE AND WAM WAM VALLEYS, UTAH

5200 FOOT 2/3 FILLED HEXAGONAL MPS LAYOUT
MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER

APPROVED BY:

DATE

CORPS OF ENGINEERS

AIR FORCE REGIONAL CIVIL ENGINEER - MX

APPROVED BY:

DRAWING NUMBER 48

REV

USAF BALLISTIC MISSILE OFFICE

SHEET _____ OF _____

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	1/19/81	REVISION	<i>[Signature]</i>	1/19/81

REVISIONS

113°15'00"W

R12W

R11W

113°00'00"

38°00'00"N

T21S

T22S

SEE DRAWING
#45

T23S

38°45'00"N

T24S

REVIEW LAKE

WAH WAH VALLEY

TYPICAL SHELTER SITE

TYPICAL CLUSTER ROAD

5.12

5.13

5.16

5.17

5.10

5.14

5.15

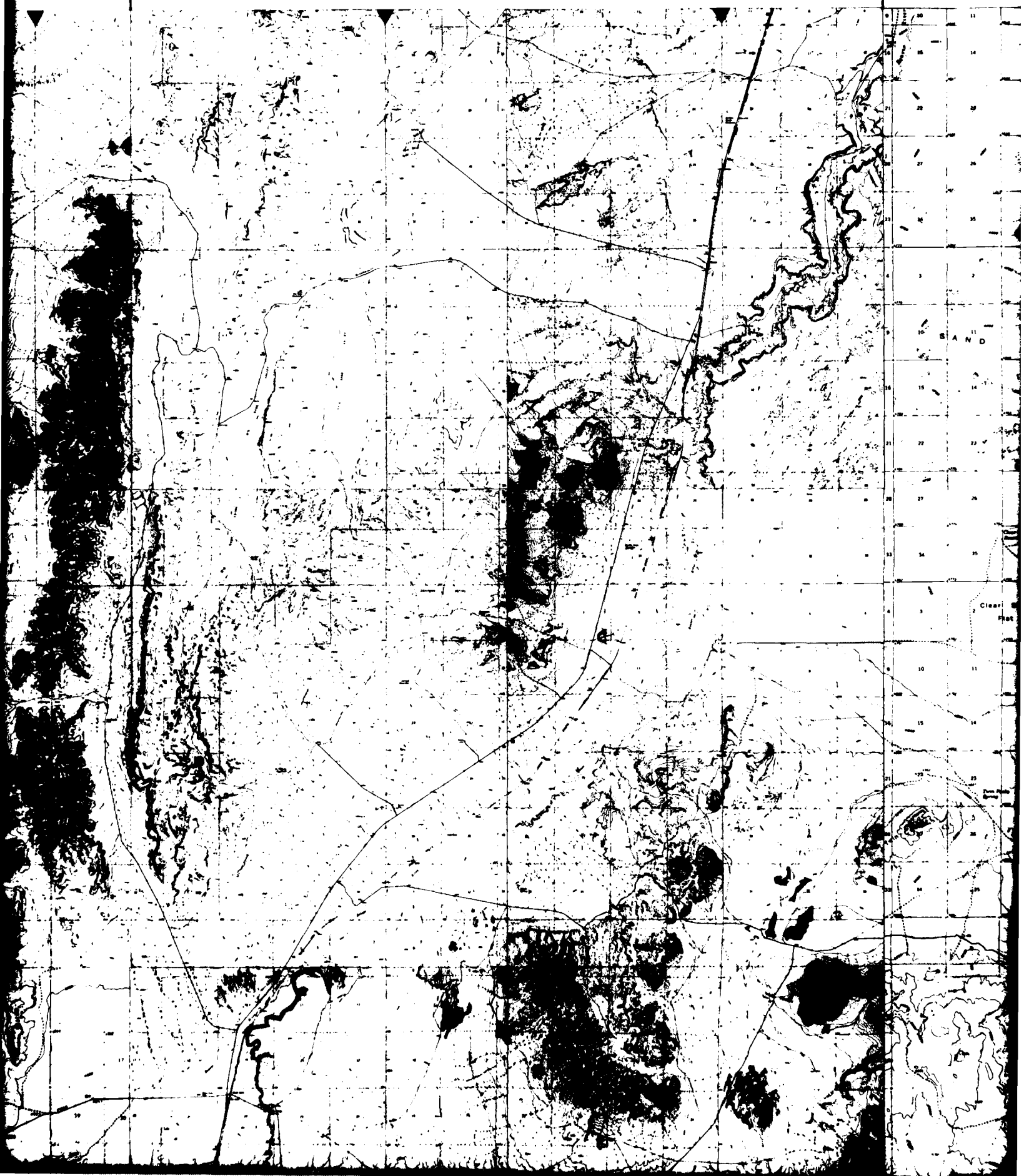
5.18

113°00'00"W

R10W

SEE DRAWING #53
R9W

R8W
112°45'00"W



R8W
112°45'00"W

R7W

R6W

12°30'00"W

39°00'00"N

T21S

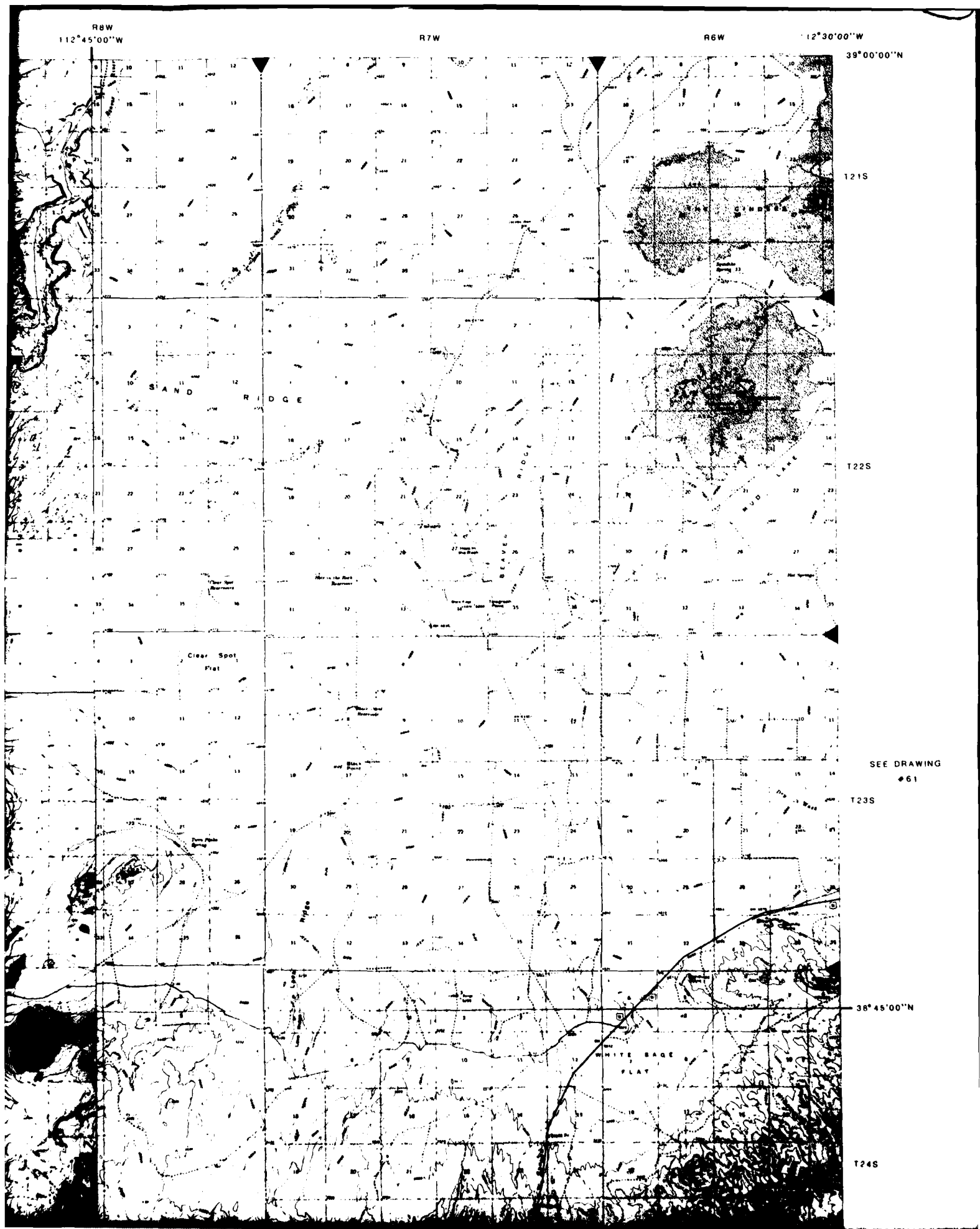
T22S

SEE DRAWING
#61

T23S

38°45'00"N

T24S



SEE DRAWING
#45

T23S

38° 45' 00" N

SEVIER LAKE

WAH WAH VALLEY

T24S

T25S

38° 37' 30" N

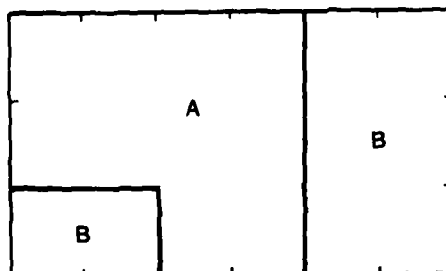
113° 15' 00" W

R12W

R11W

113° 00' 00" W

BASE MAP SOURCE INSET

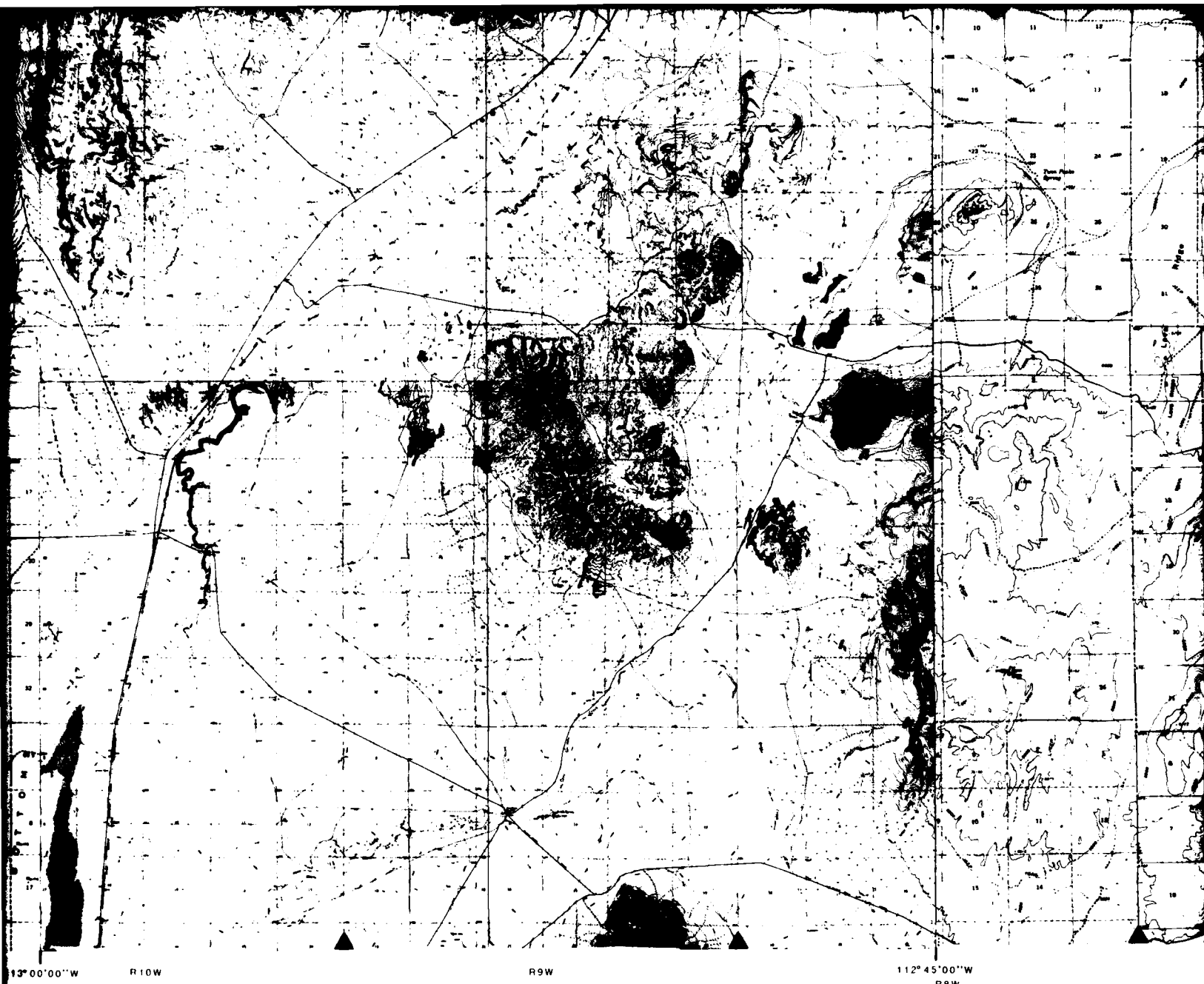


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

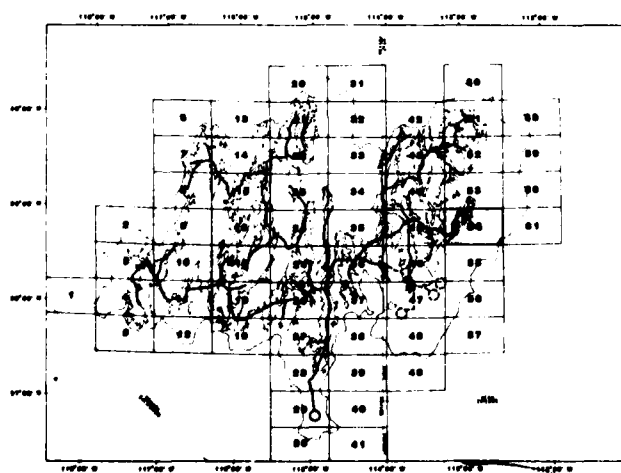
C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



MAP SHEET LOCATION

SEE DRAWING # 55



SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS

FOR EXPLANATION
OF MAP SYMBOLS

OF MAP SYMBOLS

SCALE 1:62,500

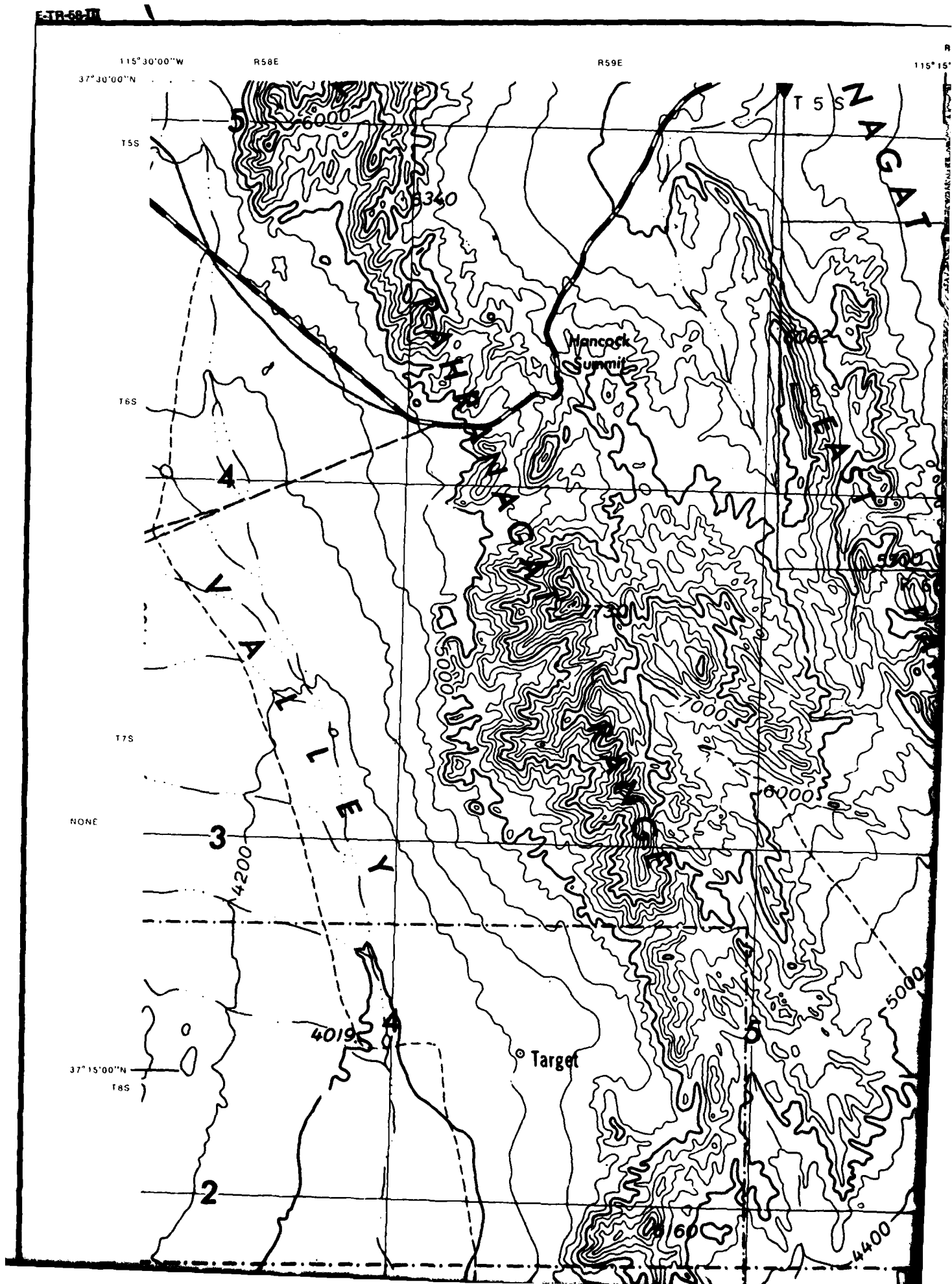


NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

**DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000**

THE SCALE IS 1:125,000

[illegible]



R61E

SEE DRAWING #27

R62E

115°00'00"W

R63E



SEE 1 500
FO

DTN

M. BERLIN
DTN
PHICAL

115°00'00"W

R63E

R64E

114°45'00"W

37°30'00"N

T5S

T6S

T7S

SEE DRAWING
#39

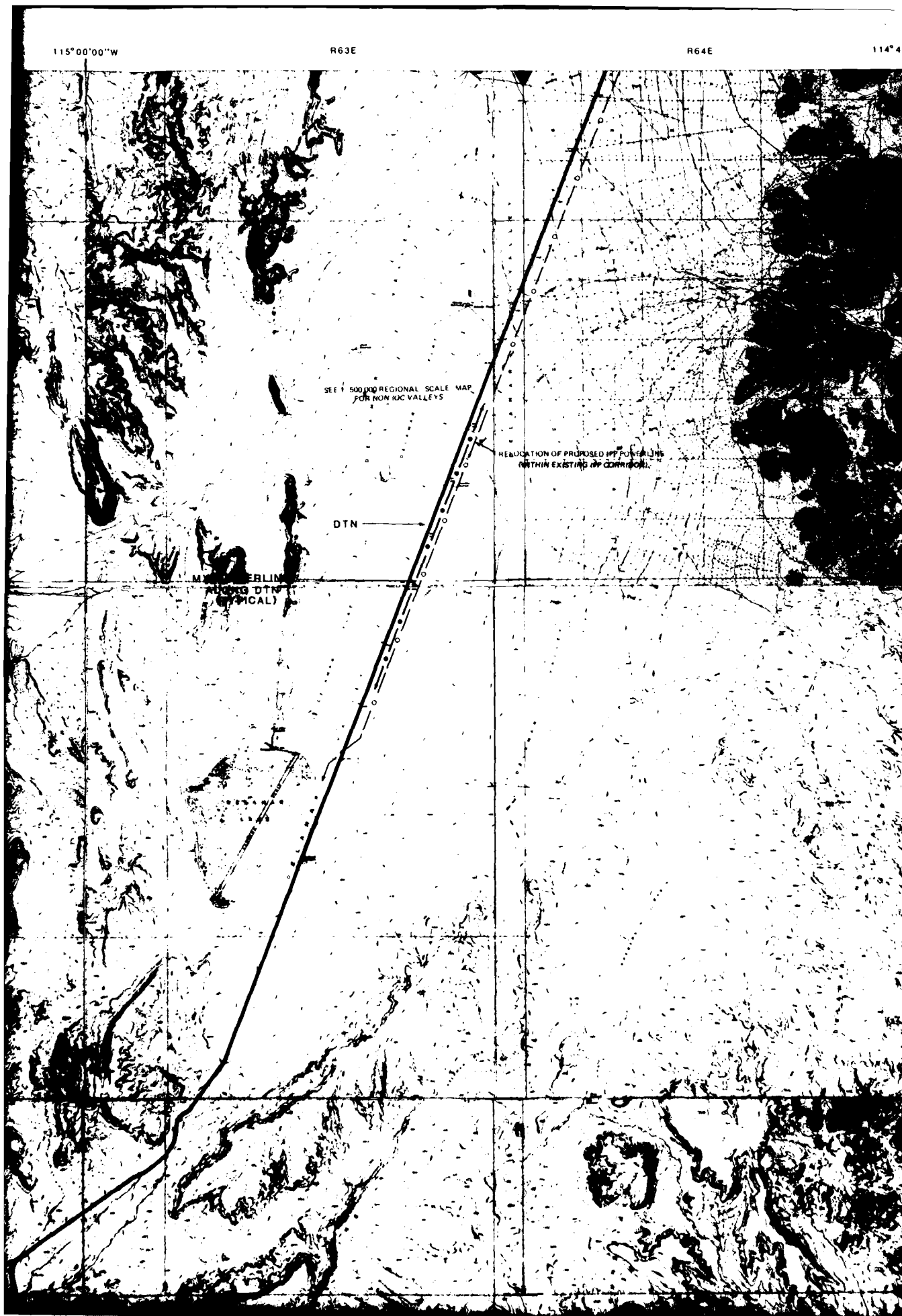
37°15'00"N
T8S

SEE 1:500,000 REGIONAL SCALE MAP
FOR NON-LOC VALLEYS

RELOCATION OF PROPOSED PP POWER LINES
WITHIN EXISTING PP CORRIDOR

DTN

MAINTENANCE
ROAD DTN (TYPICAL)



AD-A113 218

ERTEC WESTERN INC LONG BEACH CA

F/G 13/2

MX SITING INVESTIGATION. MX SYSTEM SITING SUMMARY REPORT. LAND --ETC(U)

JAN 82

F04704-80-C-0006

NL

UNCLASSIFIED

E-TR-58-VOL-3

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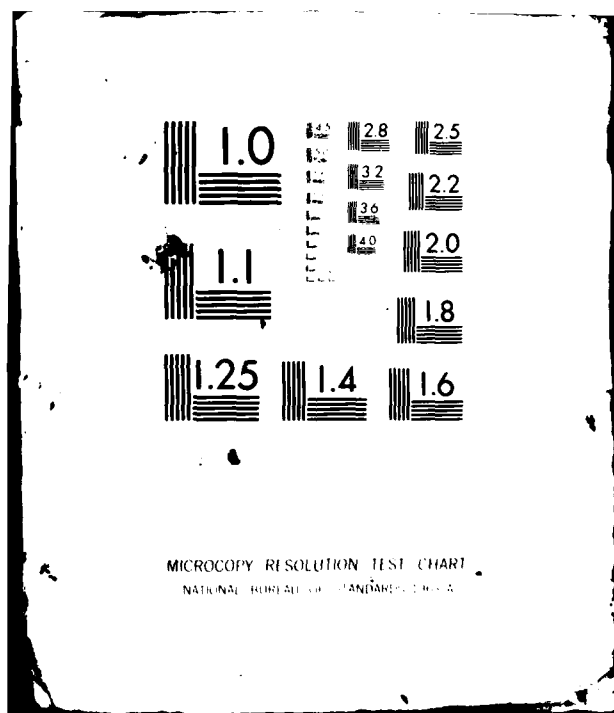
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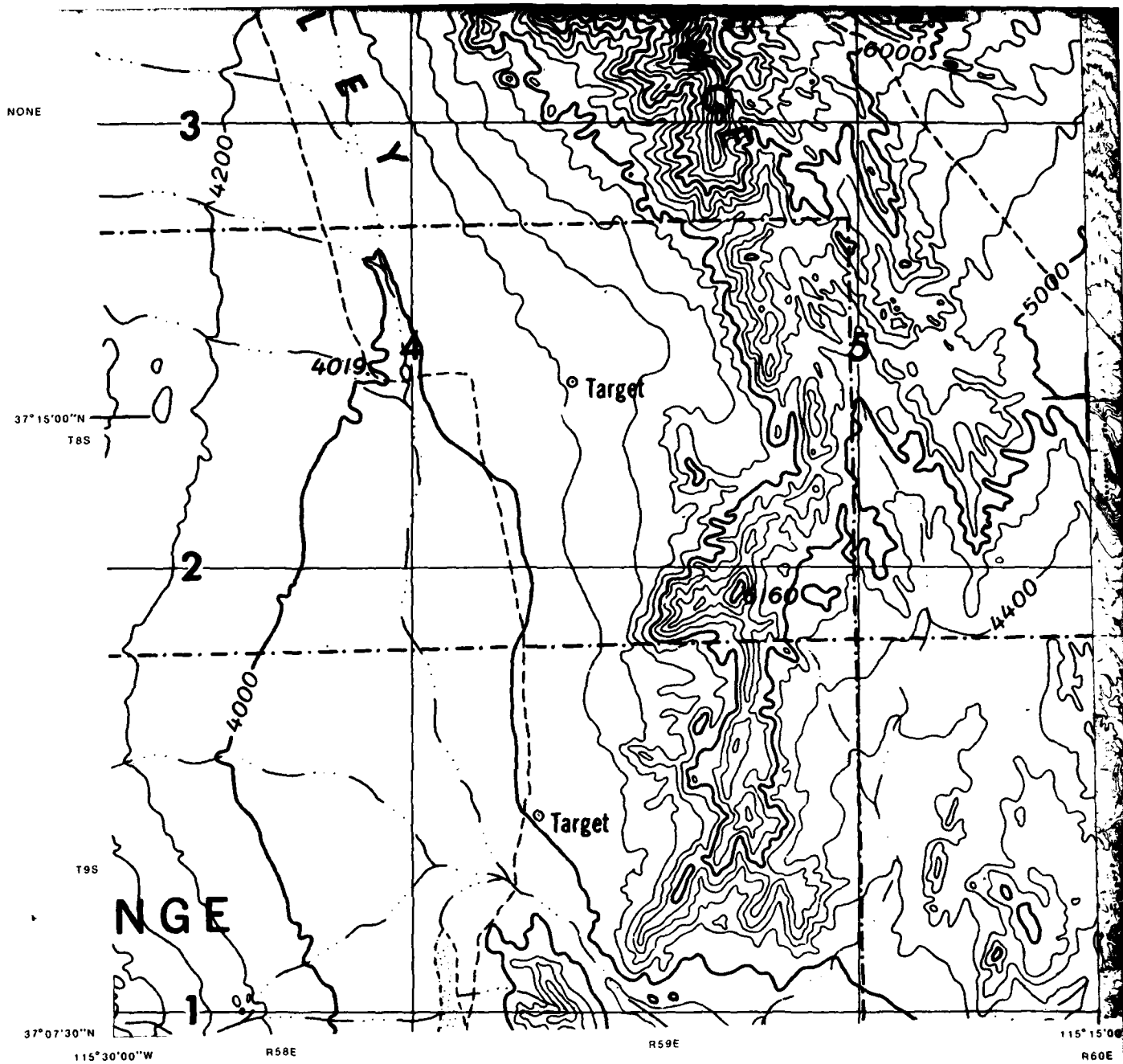
DATE

FILED

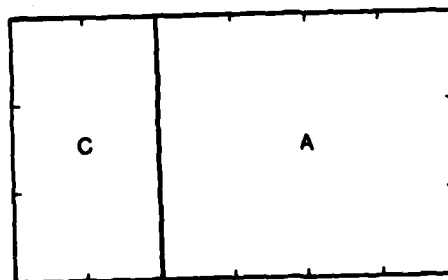
5 82

DTIC





BASE MAP SOURCE INSET

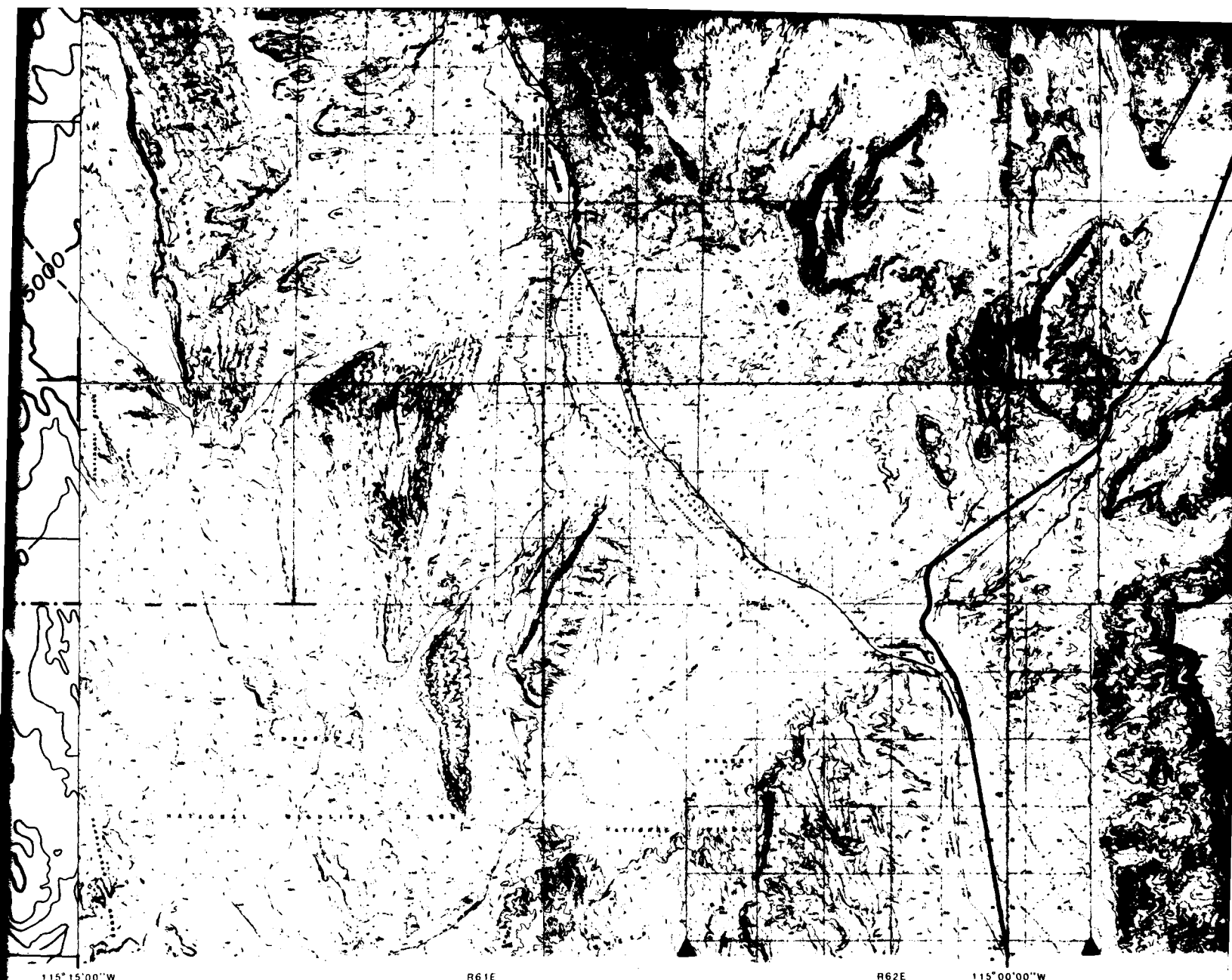


A. 7½ MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



115°15'00\"/>

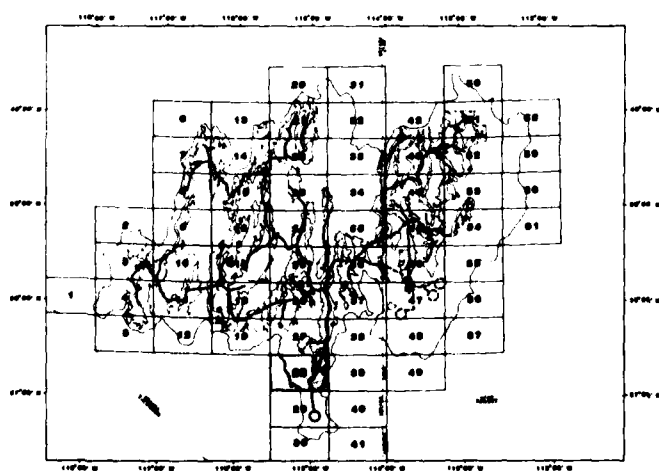
R61E

R62E

115°00'00\"/>

MAP SHEET LOCATION

SEE DRAWING #29



SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:82,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	10/1/01	REVISED DATA, ADDED PERIMETER
REVISION	DATE	DESCRIPTION
		REVIS



SEE DRAWING
#39

37° 15' 00" N
T8S

T9S

37° 07' 30" N

N62E 115° 00' 00" W R63E R64E 114° 45' 00" W

PROJECT MAP SHEET

STATE: NEVADA	RAILROADS: NONE
COUNTY: LINCOLN	STATE ROADS: NONE
LOCAL COMMUNITY: ALAMO	FEDERAL ROADS: HWY 89

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE	DTN FROM COYOTE SPRING MAIN OPERATING BASE TO DRY LAKE VALLEY 5200 FOOT 2/3 FILLED HEXAGONAL MPS LAYOUT MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/AUTAM	
DRAWN BY: <i>[Signature]</i>	9/1/81		
CHECKED BY: <i>[Signature]</i>	9/1/81		
GEOTECHNICAL <i>[Signature]</i> ENVIRONMENTAL <i>[Signature]</i>	9/1/81		
SYSTEMS ENGINEER		APPROVED BY:	DATE
CORPS OF ENGINEERS		AIR FORCE REGIONAL CIVIL ENGINEER - MX	
APPROVED BY:		DRAWING NUMBER: 28	REV
USAF BALLISTIC MISSILE OFFICE		SHEET _____ OF _____	

1	10/1/81	REVISED 10/1/81, ADDED PERMITS	<i>[Signature]</i>	9/1/81
REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
REVISIONS				

115°30'00"W
36°45'00"N

R58E

R59E

T14S

T15S

NONE

T16S

36°30'00"N

T17S



R60E

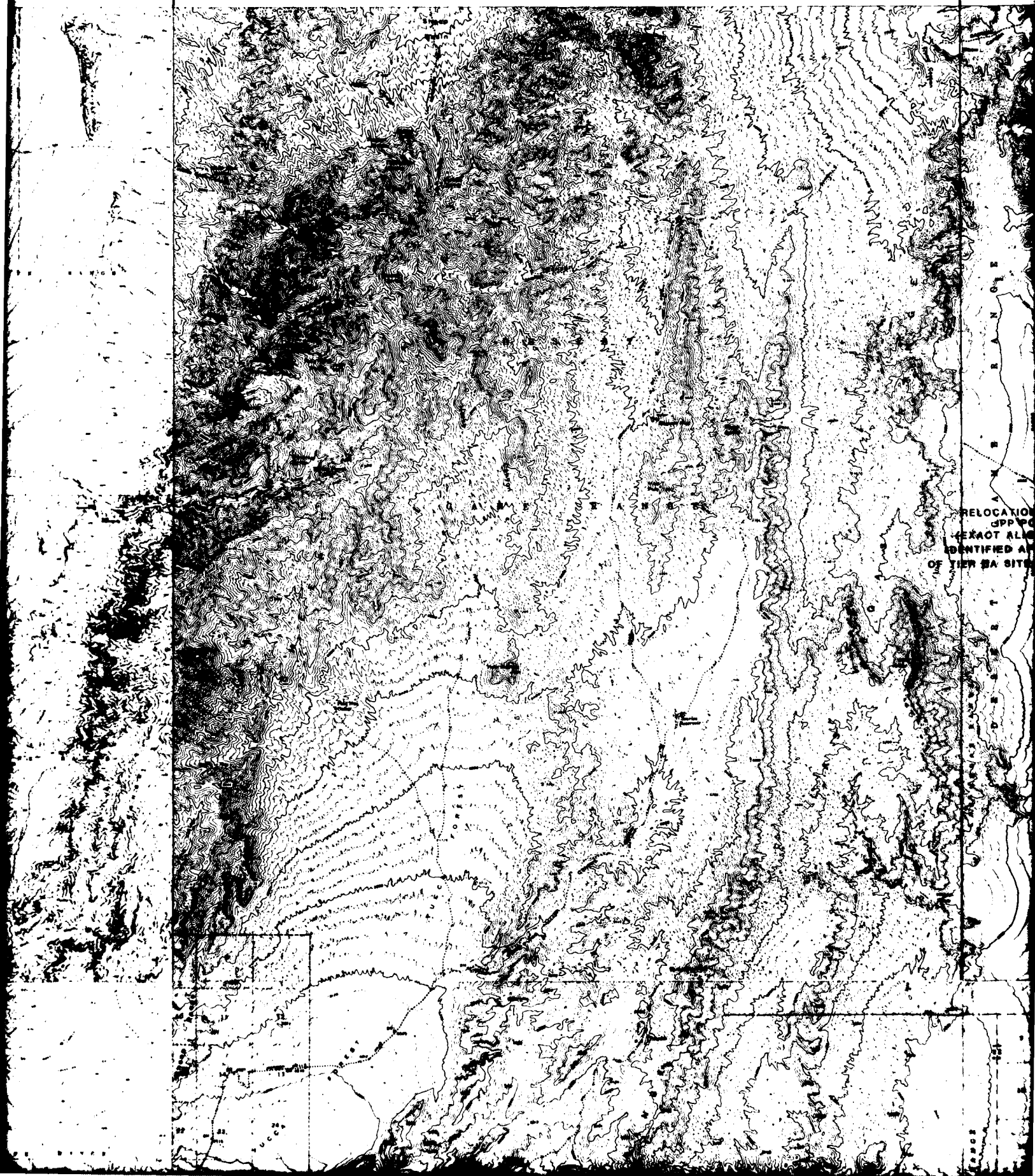
115° 15' 00" W

R61E

SEE DRAWING #29

R62E

115° 00' 00" W



RELOCATION
UPPER
EXACT ALI
IDENTIFIED A
OF TIER 2A SITE

R62E

115°00'00"W

R63E

R64E

114°45'00"W

36°45'00"N

RELOCATION OF PROPOSED
JPP POWERLINES
(EXACT ALIGNMENT WILL BE
IDENTIFIED AFTER COMPLETION
OF TIER 2A SITE-SPECIFIC STUDIES)

T14S

T15

SEE DRAWING
#41

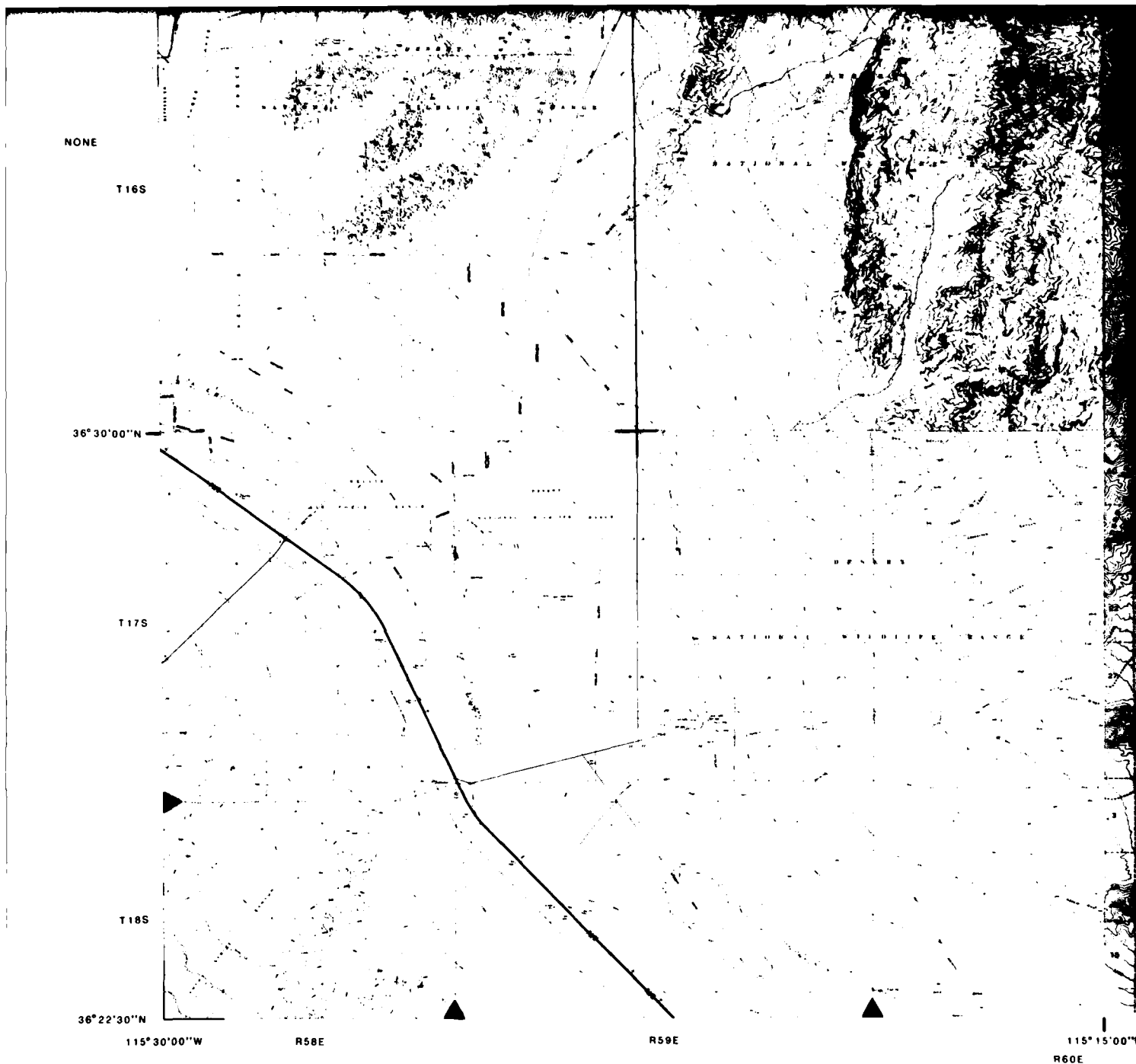
T16S

NEW RAILROAD SPUR

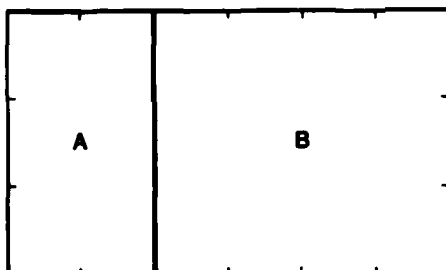
36°30'00"N

T17S

NEW RAILROAD SPUR



BASE MAP SOURCE INSET



A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



SEE DRAWING
#41

T16S

NEW RAILROAD SPUR

36°30'00"N

NEW RAILROAD SIDING

T17S

T18S

36°22'30"N

115°00'00"W

R63E

R64E

114°45'00"W

PROJECT MAP SHEET

STATE: NEVADA

RAILROADS: UNION PACIFIC

COUNTY: CLARK

STATE ROADS: NONE

LOCAL COMMUNITY: DRY LAKE

FEDERAL ROADS: HWY 91, 93, 95

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE

DATE

DRAWN BY: *[Signature]*

CHECKED BY: *[Signature]*

GEOTECHNICAL: *[Signature]*

SITING: *[Signature]*

ENVIRONMENTAL: *[Signature]*

SYSTEMS ENGINEER: *[Signature]*

CORPS OF ENGINEERS: *[Signature]*

APPROVED BY: *[Signature]*

USAF BALLISTIC MISSILE OFFICE

RAILROAD FROM MAINLINE TO COVOTE
MAIN OPERATING BASE

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

APPROVED BY:

DATE

AIR FORCE REGIONAL CIVIL ENGINEER-MX

DRAWING NUMBER: 30

REV

SHEET _____ OF _____

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	10/1/81	REVISIONS	<i>[Signature]</i>	10/1/81

114° 45' 00" W

R65E

R66E

114° 0' 00" W

36° 45' 00" N

T14S

T15S

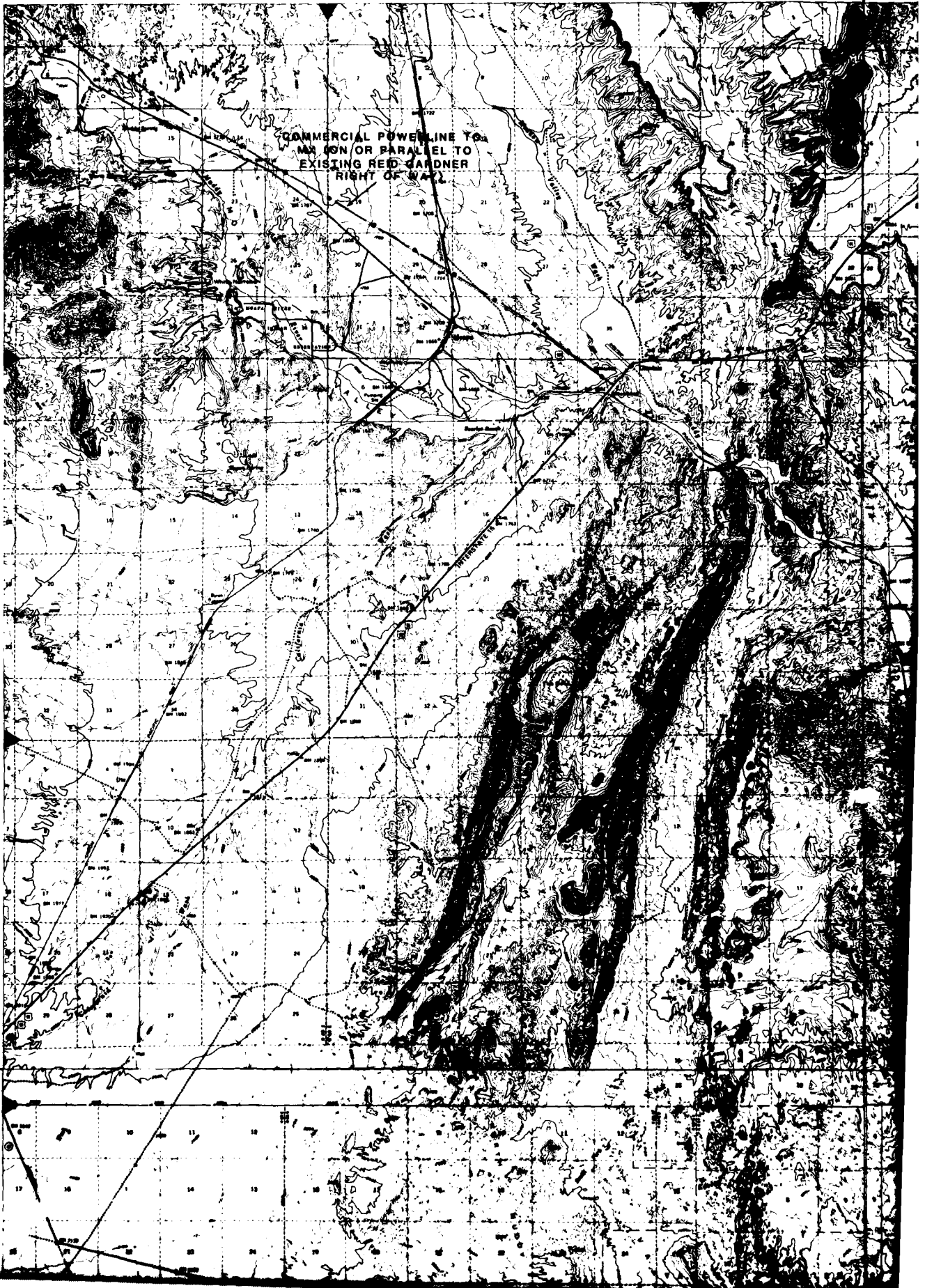
SEE DRAWING
#30

T16S

36° 30' 00" N

T17S

COMMERCIAL POWER LINE TO
BE RUN ON OR PARALLEL TO
EXISTING RED GARDNER
RIGHT OF WAY



2

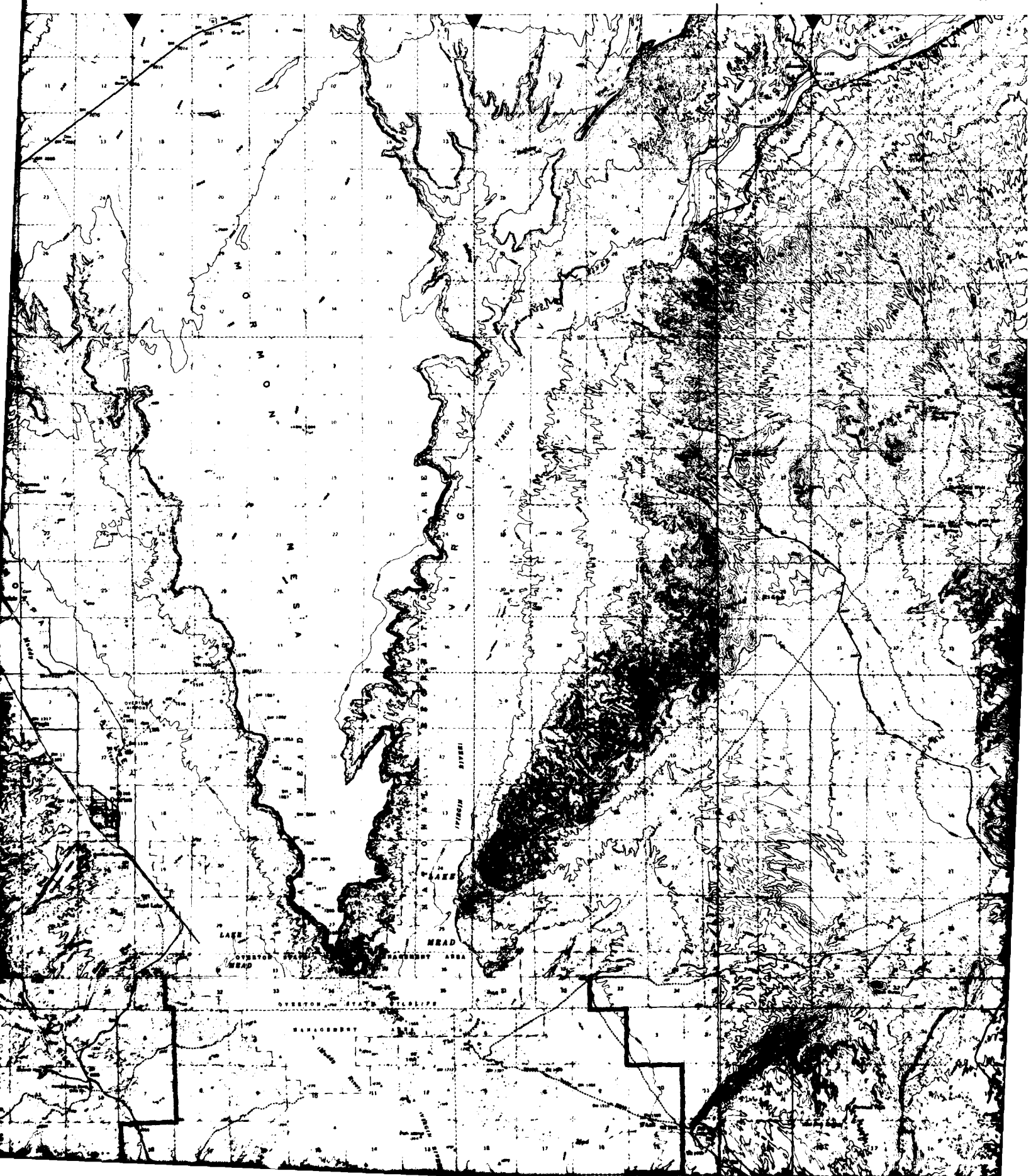
SEE DRAWING
40

R68E

R69E

114 15'00" W

P70E



89E

114 15 00"W

R101

R111

R10W

114 00'00"W

26 41'00"N

134N

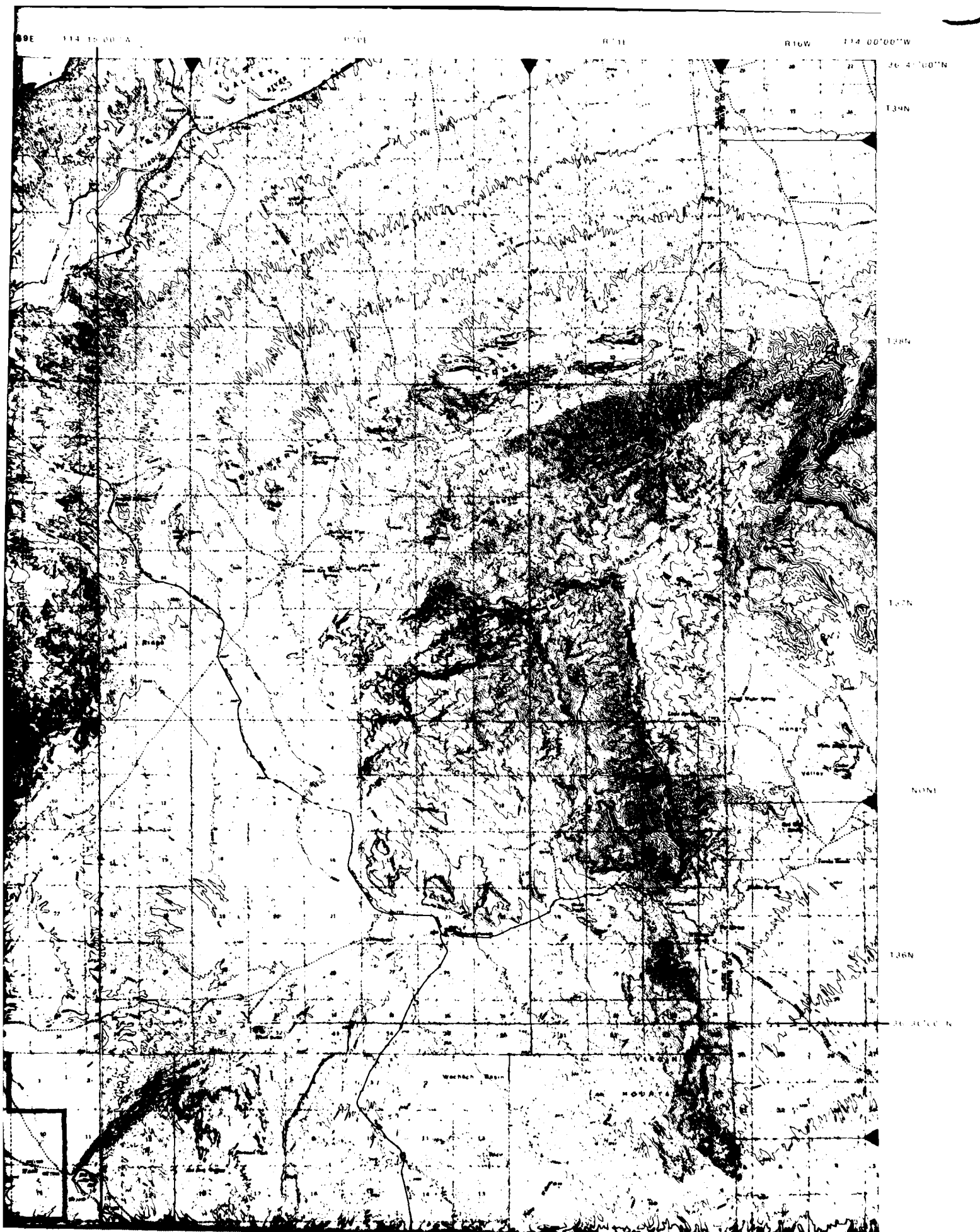
128N

122N

116N

126N

26 30'00"N



SEE DRAWING
#30

116S

36 30'00"N

117S

118S

36 22'30"N

114°45'00"W

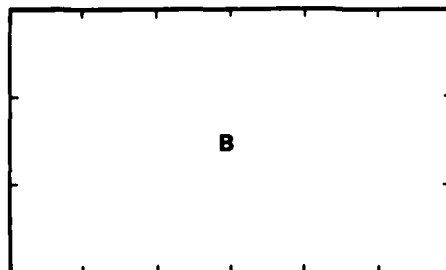
R65E

R66E

R66 1/2 E

114 30'00"W
R67E

BASE MAP SOURCE INSET



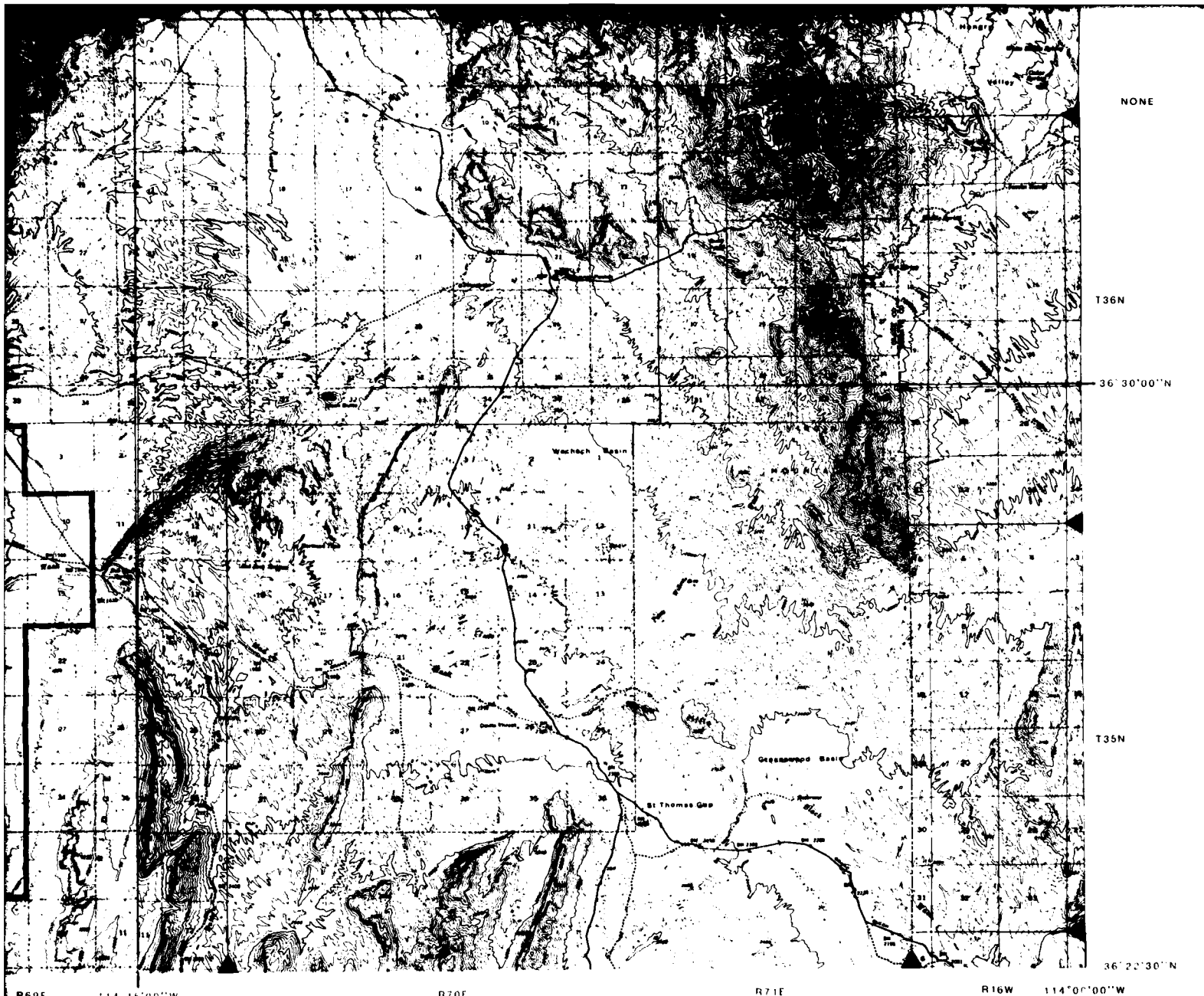
A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

REVISION



NONE

T36N

36°30'00"N

T35N

36°22'30"N

R69E

114°15'00"W

R70E

R71E

R16W

114°00'00"W

PROJECT MAP SHEET

STATE: NEVADA, ARIZONA	RAILROADS: UNION PACIFIC
COUNTY: MOHAVE, CLARK	STATE ROADS: HWY 12, 40
LOCAL COMMUNITY: MOAPA, GLENDALE, OVERTON, LONGDALE	FEDERAL ROADS: HWY 91, 93

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE	POWERLINE FROM POWER PLANT TO MAIN OPERATING BASE MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH	
DRAWN BY <i>C. Tolson</i>	<i>9/1/81</i>		
CHECKED BY <i>C. Tolson</i>	<i>9/1/81</i>		
GEOTECHNICAL <i>Shirley M. Nelson</i>	<i>9/1/81</i>		
SITING <i>F. J. Anderson</i>	<i>9/1/81</i>		
ENVIRONMENTAL			
SYSTEMS ENGINEER		APPROVED BY	DATE
CORPS OF ENGINEERS			

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE	APPROVED BY:	DRAWING NUMBER: 41	REV
1	10/1/81	REVISED NOTES					

113°15'00"W
38°37'30"N

R12W

R11W

113°00'

T25S

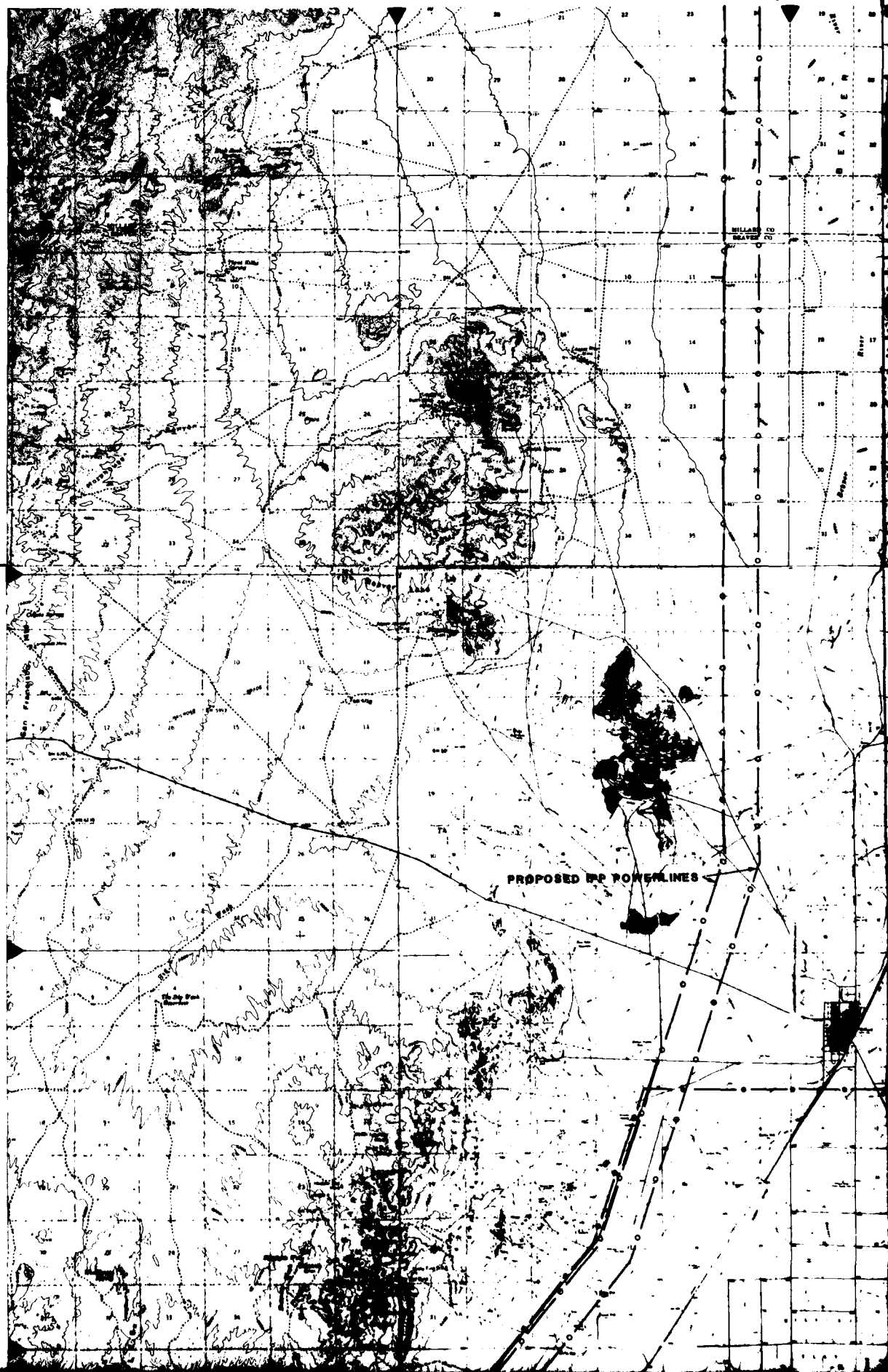
T26S

38°30'00"N

T27S

SEE DRAWING
#46

T28S



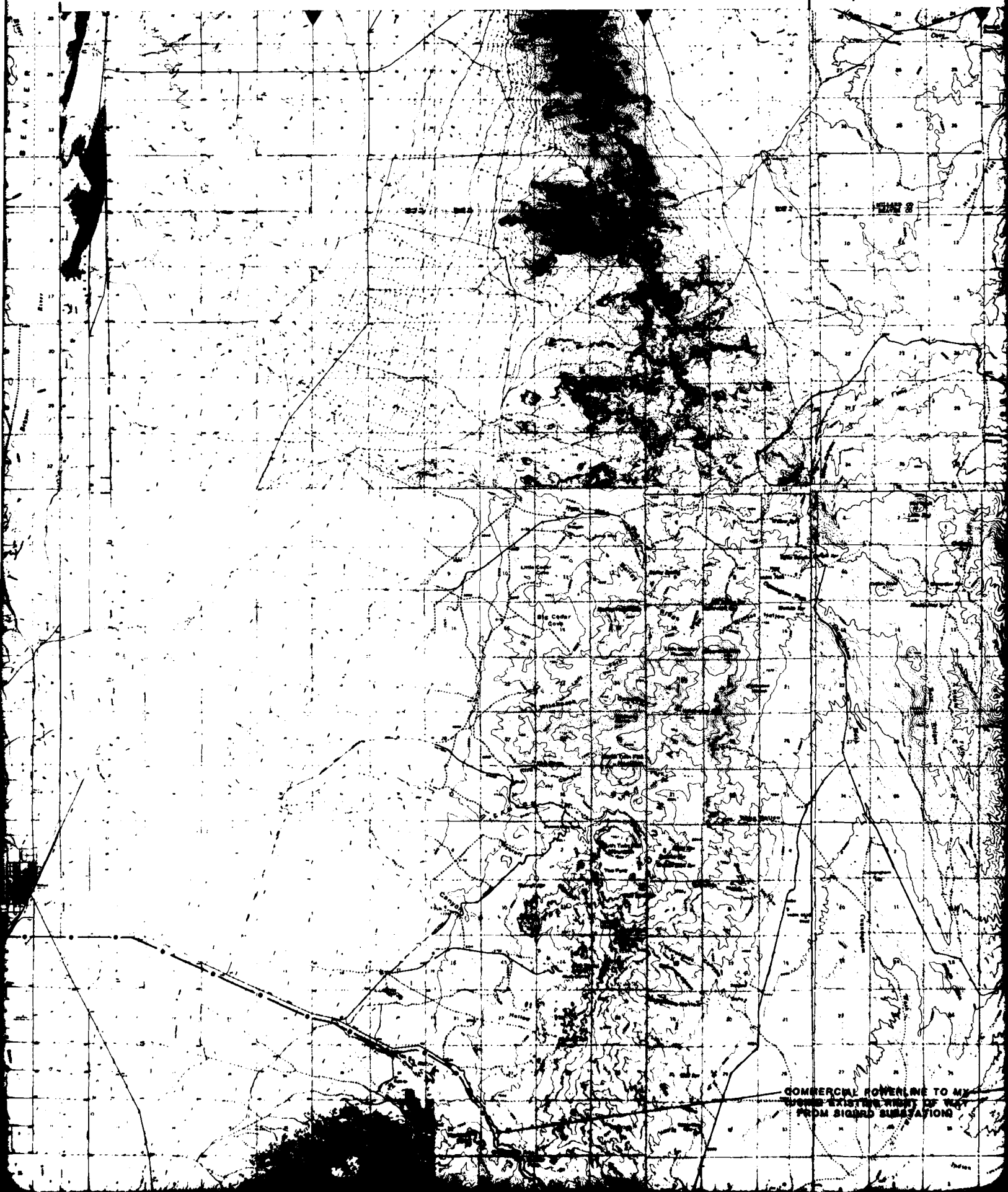
113°00'00"W

R10W

R9W

SEE DRAWING #54

R8W
112°45'00"W



COMMERCIAL POWERLINE TO MY
EXISTING RIGHT OF WAY
FROM SIGARD SUBSTATION

R8W
112°45'00"W

R7W

R6W

112°30'00"W

38°37'30"N

T25S

T26S

38°30'00"N

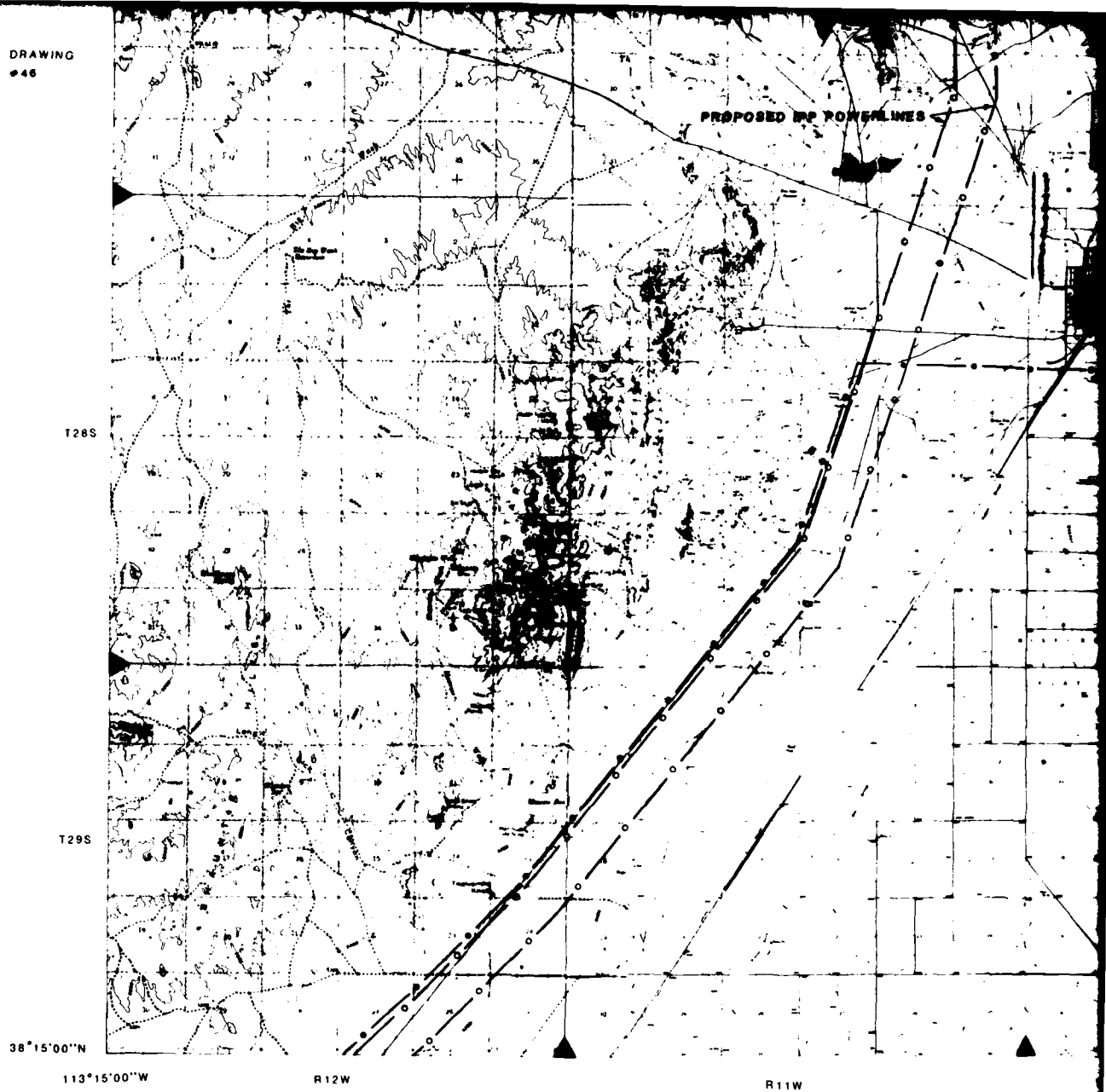
T27S

SEE DRAWING
#62

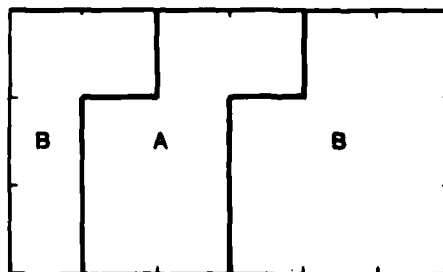
T28S

COMMERCIAL POWERLINE TO MY
TOWNS EXISTING WEST OF WAY
FROM SIGNAL SUBSTATION

SEE DRAWING
#46



BASE MAP SOURCE INSET

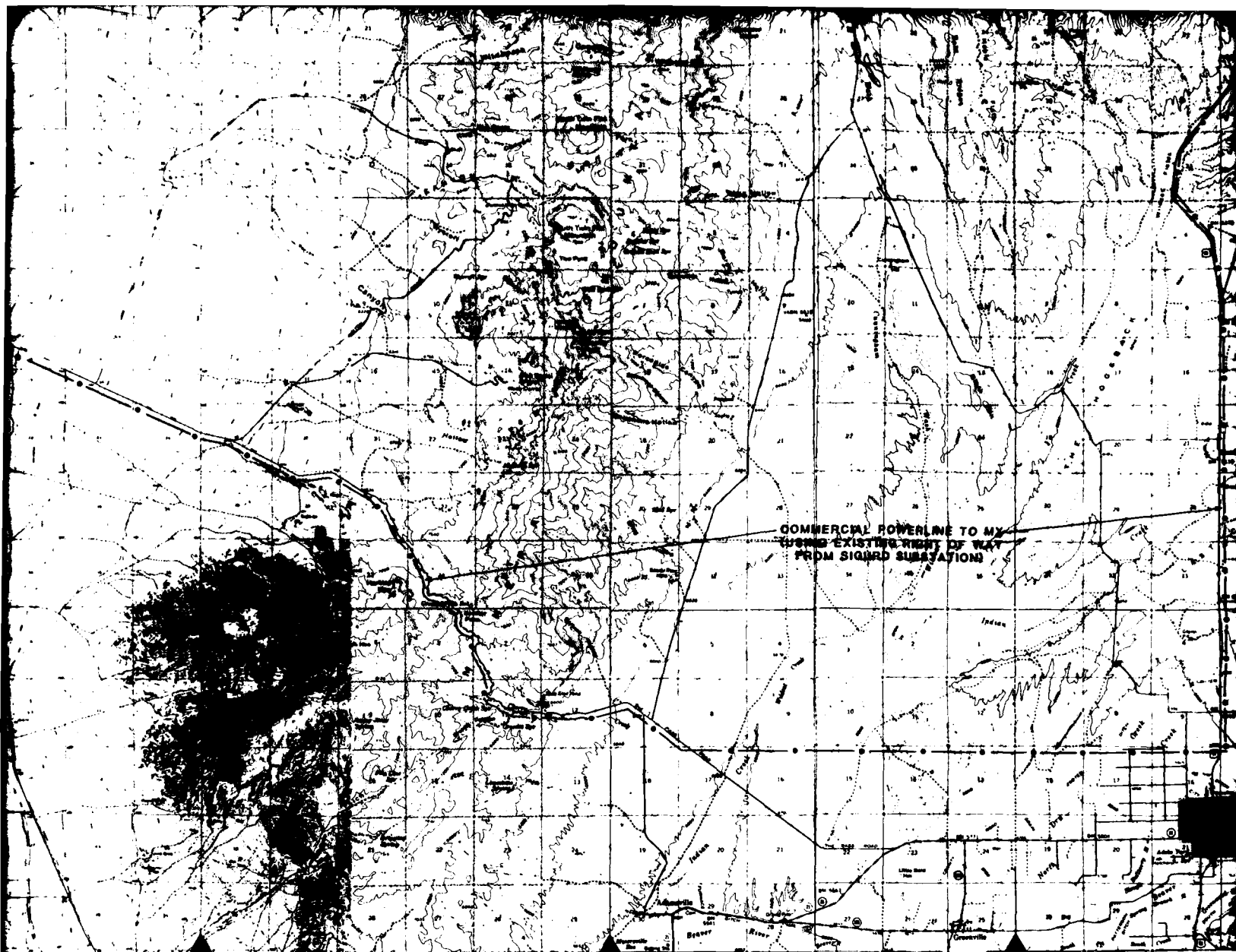


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



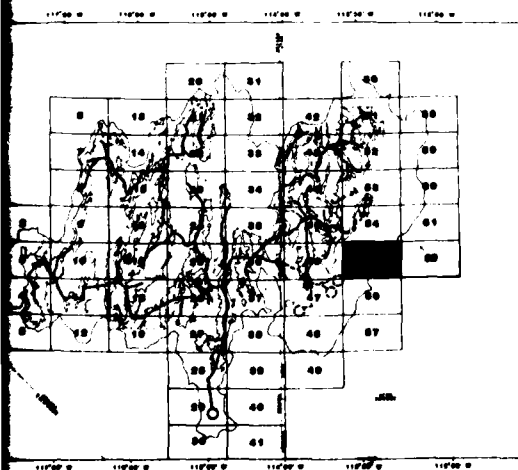
R9W

112°45'00"W
R8W

A79

SEE DRAWING # 56

MAP SHEET LOCATION



**SEE SHEET "A"
FOR EXPLANATION
OF MAP SYMBOLS**

SCALE : 82,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

[illegible]

SEE DRAWING
#62

T28S

T29S

38°15'00"N

112°45'00"W
R6W

R7W

R6W

112°30'00"W

PROJECT MAP SHEET

STATE: UTAH	RAILROADS: UNION PACIFIC
COUNTY: MILLARD, BEAVER	STATE ROADS: HWY 21, 163, 128, 257
LOCAL COMMUNITY: BEAVER, MILFORD, MANDERFIELD, ADAMSVILLE, GREENSVILLE	FEDERAL ROADS: HWY 81

DEPARTMENT OF THE AIR FORCE AIR FORCE REGIONAL CIVIL ENGINEER - MX NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY: <i>C. H. [Signature]</i>	7/1/61
CHECKED BY: <i>C. H. [Signature]</i>	7/1/61
GEOTECHNICAL: <i>[Signature]</i>	7/1/61
SITING: <i>[Signature]</i>	7/1/61
ENVIRONMENTAL: <i>[Signature]</i>	7/1/61

POWERLINE FROM SHIGRD SUBSTATION
TO MAIN OPERATING BASE

MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER: <i>[Signature]</i>	APPROVED BY:	DATE
CORPS OF ENGINEERS	AIR FORCE REGIONAL CIVIL ENGINEER - MX	

APPROVED BY:	DRAWING NUMBER: 66	REV
USAF BALLISTIC MISSILE OFFICE	SHEET _____ OF _____	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	7/1/61	REVISION	<i>[Signature]</i>	7/1/61

REVISIONS

112°30'00"W

R5W

R4W

11

39°00'00"N

T21S

T22S

SEE DRAWING
#54

T23S

38°45'00"N

T24S

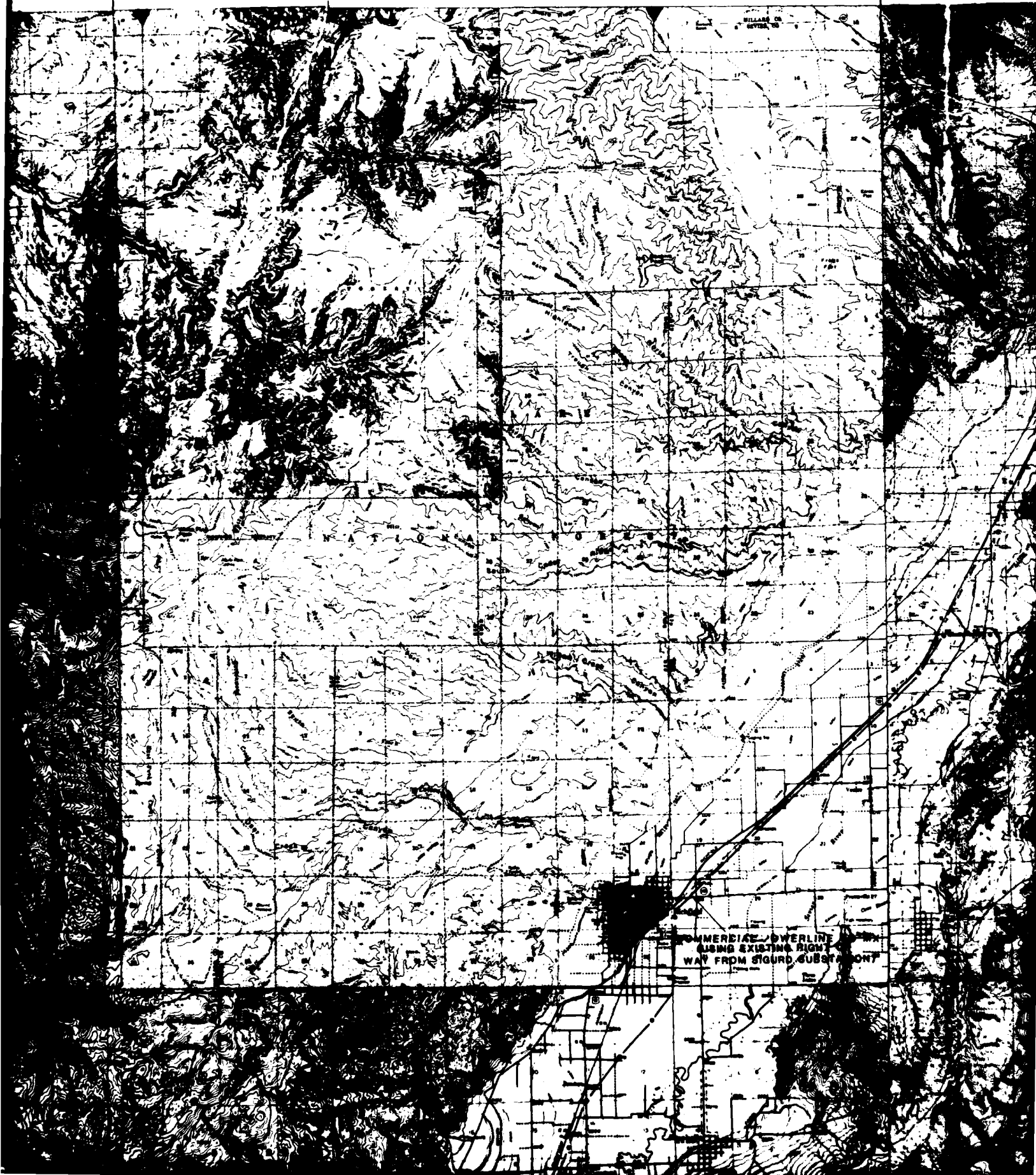


112° 15' 00" W

R3W

SEE DRAWING #60 R 2 1/2 W

R2W 112° 00' 00" W



R2W 112°00'00"W

R1W

R1E

111°45'00"W

39°00'00"N

T21S

T22S

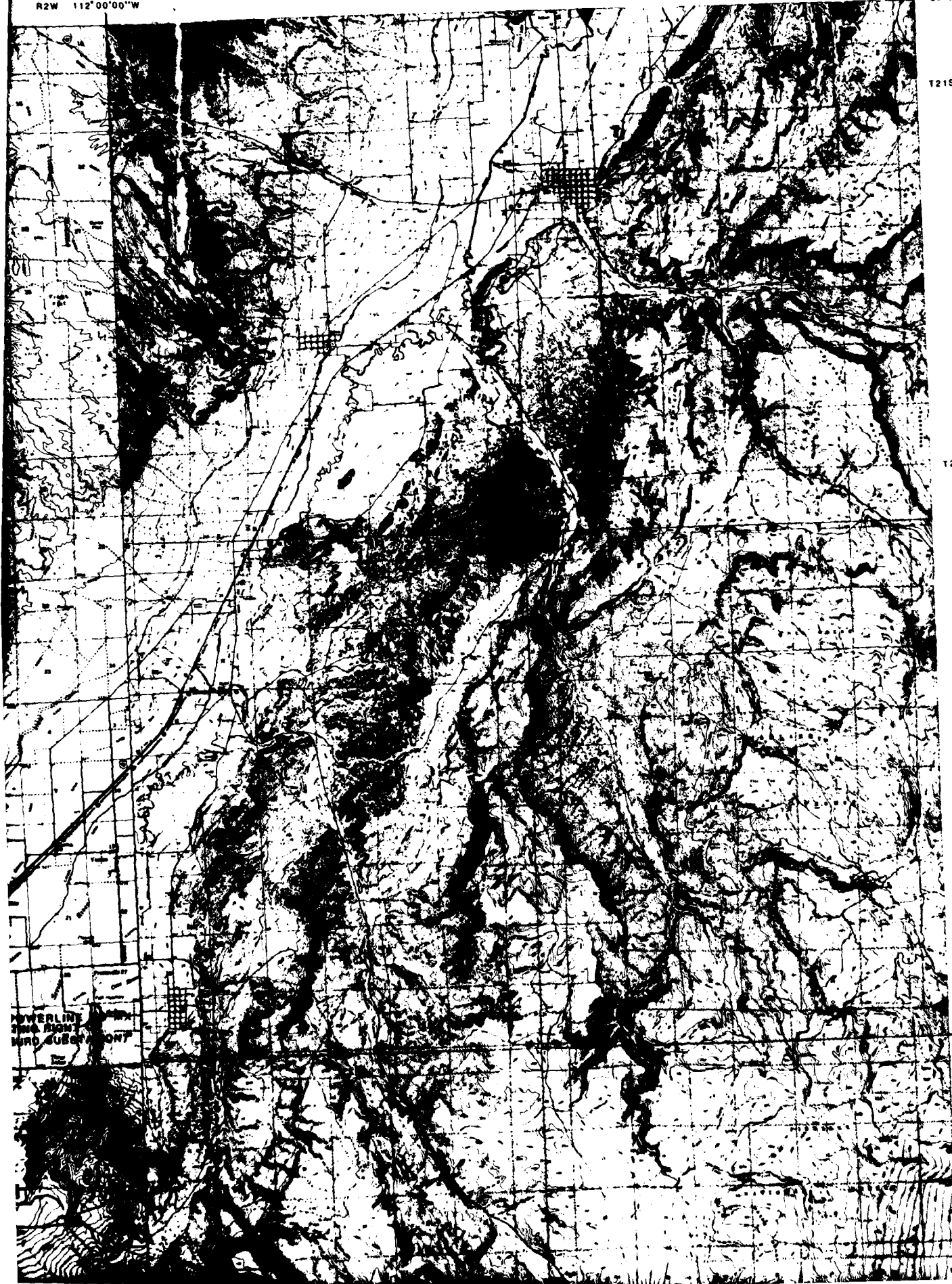
NONE

T23S

38°45'00"N

T24S

POWERLINE
AND RIGHT
OF WAY



SEE DRAWING
#54

T23S

38°45'00"N

T24S

T25S

38°37'30"N

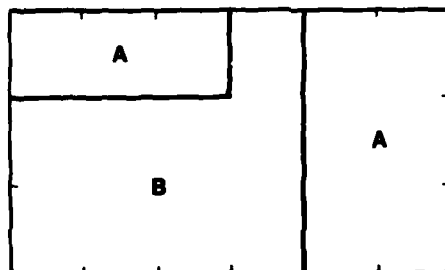
112°30'00"W

R6W

R5W

112°

BASE MAP SOURCE INSET

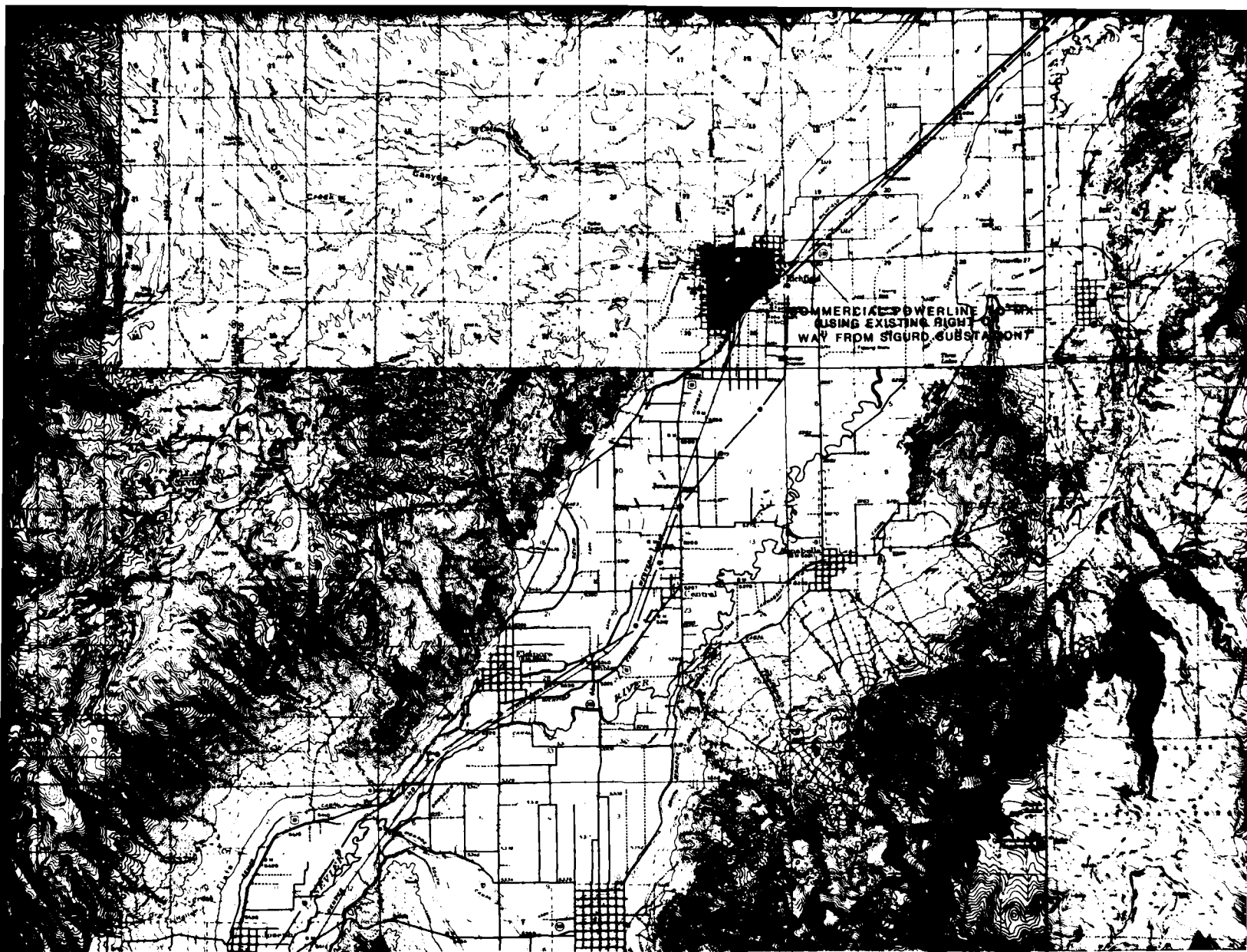


A. 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

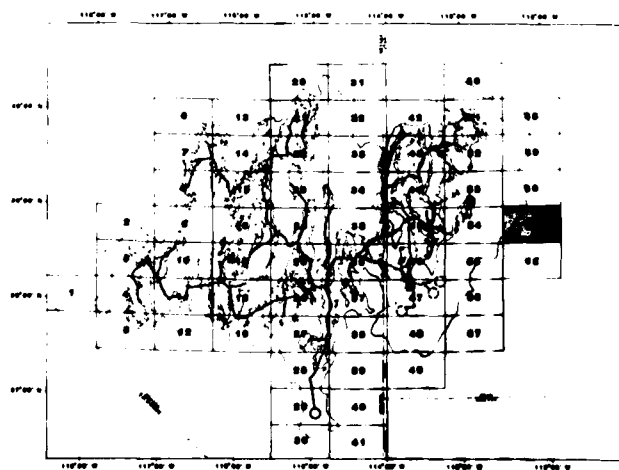
B. 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C. 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D. COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500



MAP SHEET LOCATION



SEE DRAWING #62



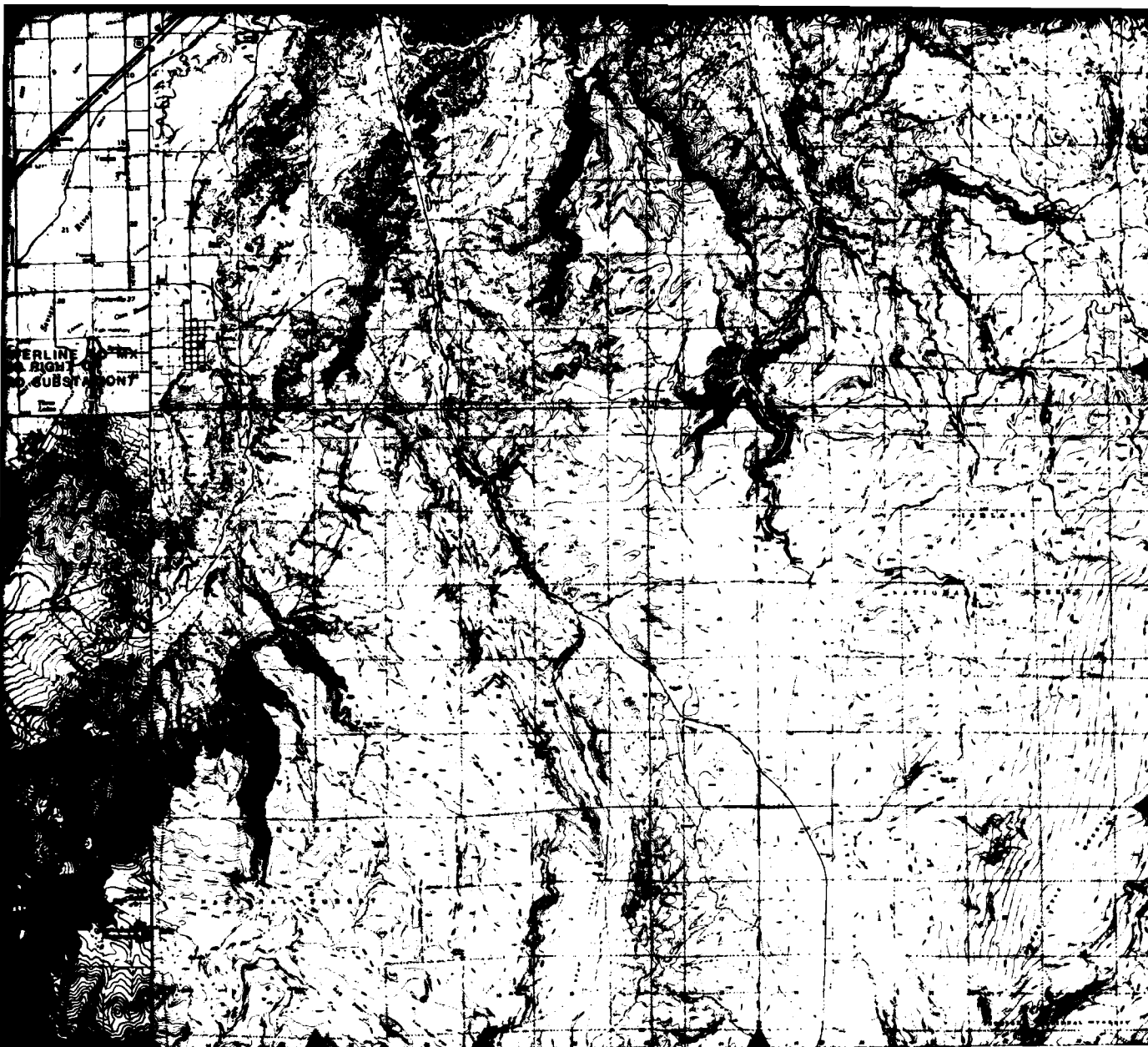
SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS

SCALE 1:82,500



NOTE:
DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000

1	REFM	REVISED MASTER
REVISION	DATE	DESCRIPTION
		REV



NONE

T23S

38°45'00"N

T24S

T25S

38°37'30"N

R2W 112°00'00"W

R1W

R1E

111°45'00"W

PROJECT MAP SHEET

STATE: UTAH	RAILROADS: DENVER, RIO GRANDE WESTERN
COUNTY: MILLARD, SEVIER	STATE ROADS: HWY 118, 119, 141, 28, 258
LOCAL COMMUNITY: AURORA, GLENWOOD	FEDERAL ROADS: HWY 89, 91
ANNABELLA, RICHFIELD, SALINA, KANOSH	
CENTRAL MEADOW, FILMORE, ELISHORE	

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE
DRAWN BY: <i>[Signature]</i>	9/1/81
CHECKED BY: <i>[Signature]</i>	9/1/81
GEOTECHNICAL: <i>[Signature]</i>	9/1/81
SURVEY: <i>[Signature]</i>	9/1/81
ENVIRONMENTAL: <i>[Signature]</i>	9/1/81

POWERLINE FROM SIGURD SUBSTATION
TO MAIN OPERATING BASE
MX SYSTEM PROPOSED LAND REQUIREMENTS FOR NEVADA/UTAH

SYSTEMS ENGINEER	APPROVED BY:	DATE
CORPS OF ENGINEERS:	AIR FORCE REGIONAL CIVIL ENGINEER-MX	
APPROVED BY:	DRAWING NUMBER: 61	REV
USAF BALLISTIC MISSILE OFFICE	"MEET" OF	

REVISION	DATE	DESCRIPTION	SIGNATURE	DATE
1	10/01/81	REVISED MAP	<i>[Signature]</i>	10/1/81
REVISIONS				

T26S

COMMERCIAL POWERLINE TO MX
(USING EXISTING RIGHT OF WAY
FROM SQUARD SUBSTATION)

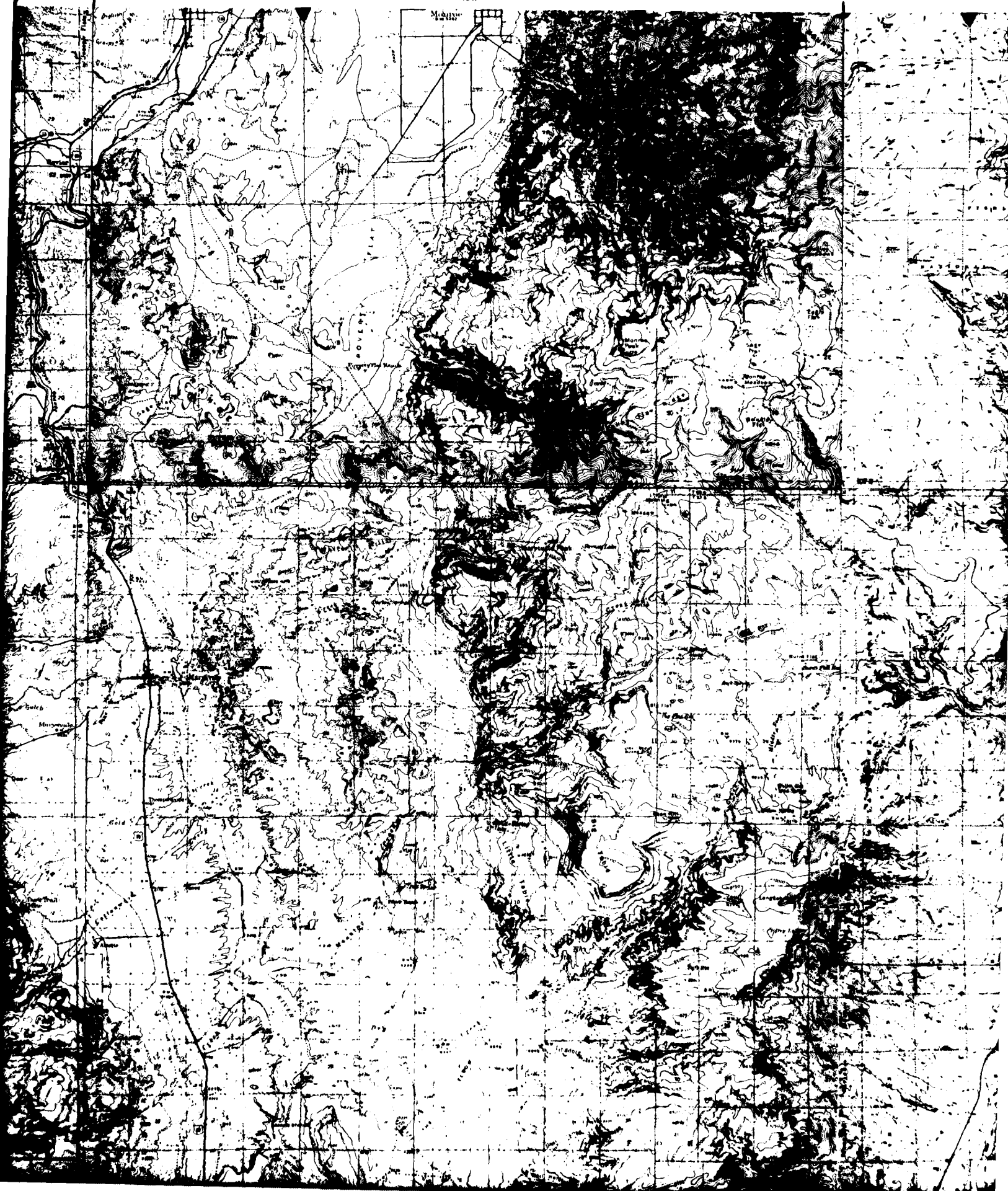
SEE DRAWING # 55

R4W
112°15'00"W

R3W

SEE DRAWING # 61

R2W
112°00'00"W



R2W
112°00'00"W

R1W

R1E

111°45'00"W

38°37'30"N

T25S

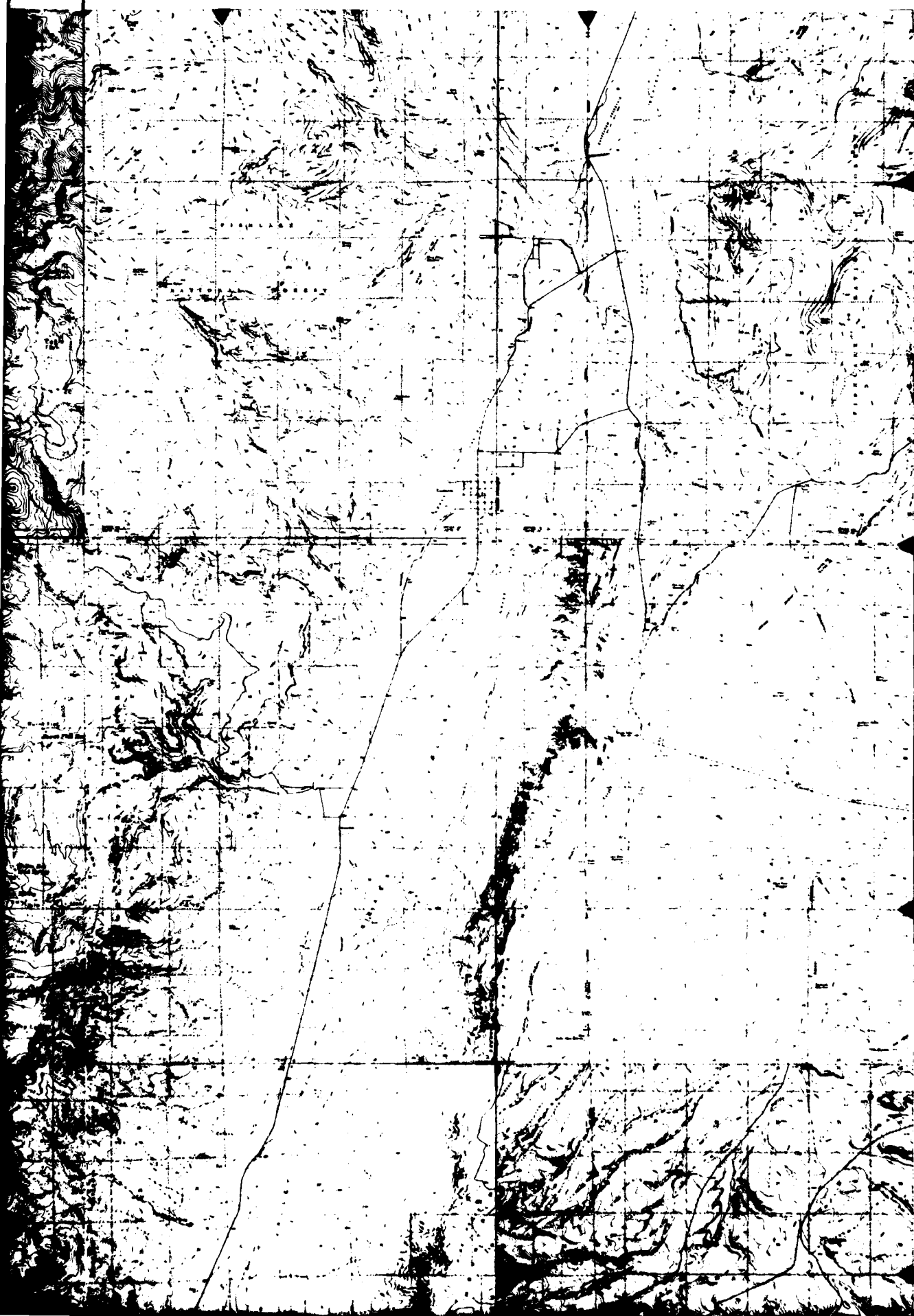
T26S

38°30'00"N

T27S

NONE

T28S



SEE DRAWING # 55

T28S

T29S

38 15'00"N

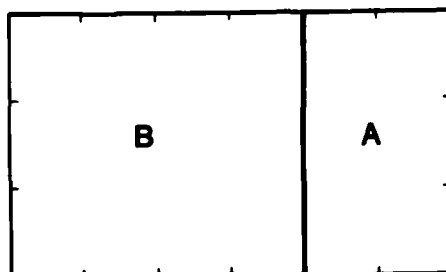
112°30'00"W

R5W

R4W

112°

BASE MAP SOURCE INSET



A 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:24,000)

B 15 MINUTE TOPOGRAPHIC QUADRANGLE, USGS (1:62,500)

C 2 DEGREE TOPOGRAPHIC QUADRANGLE, USGS (1:250,000)

D COMPILED BY STEREO - PHOTOGRAMMETRIC METHODS BY
ERTEC AIRBORNE SYSTEMS (FORMERLY FUGRO GEOMETRICS)
AT 1:62,500

112°00'00"W
R2W

NONE

**SEE SHEET 'A'
FOR EXPLANATION
OF MAP SYMBOLS**

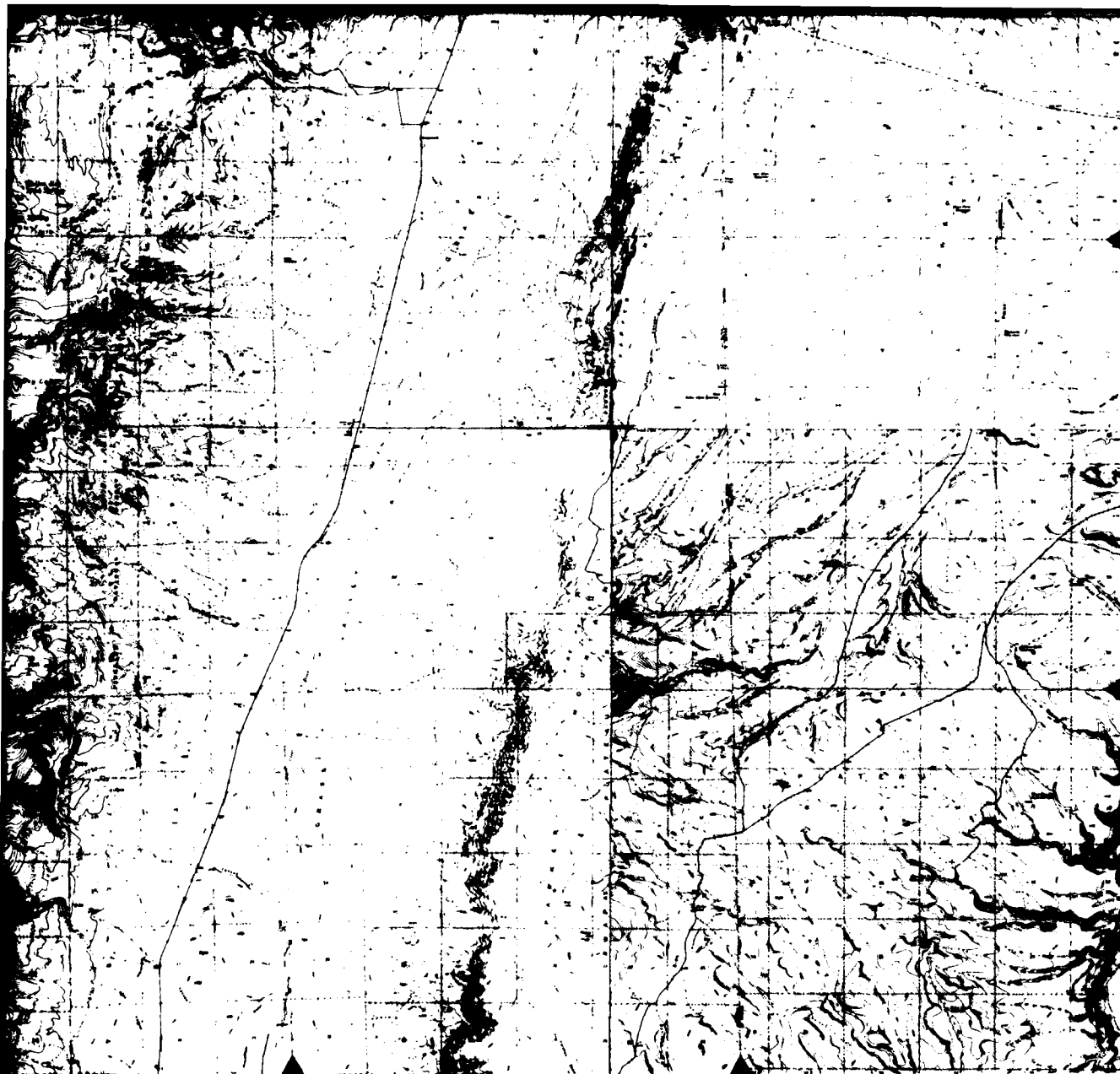
SCALE 1 62,500



NOTE.

**DUE TO MAP SCALE REDUCTION
THE SCALE IS 1:125,000**

[illegible]



NONE

PROJECT MAP SHEET	
STATE: UTAH	RAILROADS: RIO GRANDE WESTERN
COUNTY: PIUTE, SEVIER, WAYNE	STATE ROADS: HWY 13, 24, 26, 62, 163
LOCAL COMMUNITY: DOOSHAREM,	FEDERAL ROADS: HWY 89
MARYSVALE, MONROE, SEVIER, THOMPSONVALE	

DEPARTMENT OF THE AIR FORCE
AIR FORCE REGIONAL CIVIL ENGINEER - MX
NORTON AIR FORCE BASE, CA 92409

SIGNATURE	DATE	<p align="center">POWERLINE FROM SIGURD SUBSTATION TO MAIN OPERATING BASE</p> <p align="center">MX SYSTEM LAND REQUIREMENTS FOR NEVADA/UTA-1</p>	
DRAWN BY			
CHECKED BY			
GEOTECHNICAL			
SITING			
ENVIRONMENTAL			
SYSTEMS ENGINEER		APPROVED BY	DATE
CORPS OF ENGINEERS		AIR FORCE REGIONAL CIVIL ENGINEER-MX	
APPROVED BY		DRAWING NUMBER: 62	REV
USAF BALLISTIC MISSILE OFFICE		SHEET _____ OF _____	

REVISIONS